## زوروا بجموعة رافُ لبرجة لسي بلس بلس على لفيس بوك http://www.facebook.com/groups/rafeaedu/

## والموقع الالكتروني <br> https://sites.google.com/site/rafeaedu/home


كهد نتنامل لمادة 101 من اعداد المهيل ايئد ابـ هديـج
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C++ مجمqعة افـتَ لبرمجة
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[^0][^1]cout<<"\#include<string>\n";
cout<<"using namespace std; \n";
cout<<"int i,m, max, fou; \n";
cout<<"char a[45], charSaved[255]; $\backslash n " ;$
cout<<"repeat (char string[], int len) \n";
cout<<"\{ int equavelentnumber[255]=\{0\}; ${ }^{2} n " ;$
cout<<"for (i=0;i<255;i++) \n";
cout<<"charSaved[i]=char(i); $\backslash n " ;$
cout<<"for (m=0; m<255; m++) \{ $\backslash \mathrm{n} "$;
cout<<"for (i=0;i<len-1;i++) \n";
cout<<"if (( charSaved [m]== string [i]) \&\& ( string [i] !=' ')) \n";
cout<<"equavelentnumber [m]+= 1 ;\}"
cout<<"cout<<max= equavelentnumber [0]; \n";
cout<<"cout<<for (i=0; i<255;i++) \n";
cout<<"if ( equavelentnumber [i]>max) \{\n";
cout<<"max= equavelentnumber [i]; \n";
cout<<"fou =i; $\} \backslash n " ;$
cout<<"cout<<charcter more repeat << charSaved [ fou]\n";
cout<<"cout<<it repeat=<<max <<\n; \}\n";
cout<<"int main() \n";
cout<<"\{\n";
cout<<"int count1; \n";
cout<<"for ( count1=1; count1<6; count1++) \{\n";
cout<<"cout<<enter the Sting ( <<count1<<): ; \n";
cout<<"cin.getline(a ); \n";
cout<<"repeat (a, strlen(a)); ${ }^{\text {n" }}$;
cout<<"\}n";
cout<<"\} \n";

cout<<"\#include <iostream>\n";
cout<<"using namespace std; $\ \mathrm{n} " ;$
cout<<"void Read(int A[]) \n";
cout<<"\{\n";
cout<<"int i; ${ }^{\prime}$ ";
cout<<"for (i=0; i<=5; i++) \n";
cout<<"\{\n";
cout<<"cin >> A[i]; ${ }^{\text {n"; }}$
cout<<"\}\n";
cout<<"\} \n";
cout<<"void Copies() \n";
cout<<"\{\n";
cout<<"int i; \n";
cout<<"int $A[]=\{1,2,3\} ; \backslash n "$
cout<<"int $B[]=\{4,5,6\} ; \backslash n "$;
cout<<"for(i=0;i<=3;i++) \n";

```
        cout<<"A[i]=B[i]\n".
```

cout<<"cout << A[i];";
cout<<" $\} \backslash n "$;
cout<<"void OutNumber(int A[]) \n";
cout<<"\{\n";
cout<<"int i; ${ }^{\prime}$ ";
cout<<"for (i=0; i<=3;i++) \n"; cout<<"cin >> A[i]; \n";
cout<<"cout << endl;";
cout<<"for (i=3; i>=0;i--) \n";
cout<<"cout << A[i]; $\backslash n "$ 。
cout<<"cout << endl;";
cout<<" $\} \backslash n "$;
cout<<"void oddeven(int A[]) \n";
cout<<"\{\n";
cout<<"int i; ${ }^{\text {n }}$ ";
cout <<" for (i=0; i<4; i++) \n";
cout<<"\{\n";
cout<<"cin >> A[i]; ${ }^{\prime}$ ";
cout<<" $\}$ \n";
cout<<"if (A[i]\%2==0) \n"; cout<<"cout << A[i] << Is Even << endl;";
cout<<"else if (A[i]\%2!=0) \n"; cout<<"cout << A[i] << Is Odd << endl; \n";
cout<<" $\} \backslash n "$;
cout<<"void equals()\n";
cout<<"\{\n";
cout<<"int $A[]=\{2,1,3,4,5,7,8,9,6,4,3,2,0,7,8,9\} ; \backslash n " ;$
cout<<"int i,x; ${ }^{n}$ ";
cout<<"for (i=0;i<5;i++) \n";
cout<<"\{\n";
cout<<"cin >> x; ${ }^{\prime \prime}$ ";
cout<<"if (x==A[i]) \n";
cout<<"cout << Found << endl; $1 \mathrm{n} " ;$ cout<<"else\n"
cout<<"cout << Not Found << endl; ${ }^{\text {n"; }}$ cout<<"\} \n";
cout<<" \} \n";
cout<<"void maxmin(int A[])\n";
cout<<"\{\n";
cout<<"int i, x,sum=0; \n";
cout<<"int max=A[0]; ${ }^{n}$ ";
cout<<"int min=A[0]; n ";
cout<<"for(i=0;i<5;i++) \n";
cout<<"\{\n";

```
cout<<"sum+=A[i];\n";
cout<<"cin >> x;\n";
cout<<"if(x<max)\n";
        cout<<"max=A[i];\n";
cout<<"else if(x>min)\n";
        cout<<"min=A[i];\n";
    cout<<"}\n";
    cout<<"cout << The Max = << max << endl;\n";
    cout<<"cout << The Min = << min << endl;\n";
    cout<<"cout << The Sum = << sum << endl;\n";
cout<<"}\n";
cout<<"void main()\n";
cout<<"{\n";
    cout<<"cout << Please Choise Now : << endl;\n";
    cout<<"cout << 1. Read's the numbers & print << endl;\n";
    cout<<"cout << 2. Copies the Matrix Numbers << endl;\n";
    cout<<"cout << 3. Out the Three 3 Number's << endl;\n";
    cout<<"cout << 4. The Odd's & Even's Numbers << endl;\n";
    cout<<"cout << 5. Equal's Two Matrix by Numbers << endl;";
    cout<<"cout <<6. The Maximum & Minimum & Sum is Numbers << endl;";
    cout<<"int x[5];\n";
    cout<<"int ch;\n";
    cout<<"cin >> ch;\n";
    cout<<"switch(ch)\n";
    cout<<"{\n";
        cout<<"case 1: cout << The Read's Numbers : << Read(x) << endl;break;\n";
        cout<<"case 2: cout << The Copies the Matrix Numbers : <<Copies(x) << endl;break;;\n";
        cout<<"case 3: cout << The Out Numbers is : << OutNumber(x) << endl;break;\n";
        cout<<"case 4: cout << The Odd's & Even's Numbers : << oddeven(x) <<
endl;break;\n";
        cout<<"case 5: cout << The Equal's Two Matrix Numbers : << equals(x)
endl;break;\n"
                cout<<"case 6: cout << The Maximum & Minimum & Sum Numbers : << maxmin(x)
endl;break;\n";
        cout<<"}\n";
// default:
    // cout << "error" << endl;
cout<<"}\n";
}
void raed28()
{
cout<<"The matrix similar Almacher to end cap t When declare we put P matrix memory address of the first
element\n";
cout<<"Of its elements as when we declare Flagged it u t to the first item so they are similar.\n";
cout<<"Suppose dispose h n Altal n:\n";
cout<<"int numbers [20];\n";
cout<<"int * p;\n";
cout<<"Mtkafban two same Al_khasabes, Alachtlpf waving d numbers and p is true h because p = numbers;
attribution\n";
cout<<"O u t Dom to the first item of the numbers P h n p is a Nana Nstt p us give BC Meh different Flagged\n";
cout<<"Is Flagged fixed (matrix numbers name is Flagged normal to the changing Rat or ten p n element.\n";
cout<<"Is fixed Flagged).\n";
cout<<"Matrix (Flagged fixed) not enabled attribution BC Meh numbers fell Q true pw because numbers = p; The
attribution\n";
cout<<"Flagged hard.";
cou
void Arrays ()
{
cout<< "Welcome Arrays \n";
cout<<"Please select from the following:\n";
cout<<"1-Explain\n";
cout<<"2-Codes \n";
cout<<"3-Special questions\n";
cout<<"4-Exit\n";
int p;
cin>>p;
system("cls");
switch(p)
{\mp@code{S}
case 1:raed28();break;
case 2:raed29();break;
case 3:raed30();break;
case 4:raed32();break;
}
}
void raed27()
{
cout<<"ql-write a barnamej using function...that takes three integers as arguments(hours,minutes,seconds) and
return the number of seconds?\n\n";
cout<<"q2-Write a member function in your class that insert values to private data members and displays it.\n\n";
cout<<"q3-use a destructor and define a member function outside of the class body.\n";
}
void raed26()
{
cout<<"#include<iostream>\n";
cout<<"Draw_tree()\n";
```

cout<<"for (i=1; i<=10; i+=2) \{ \n";
cout<<"for $(k=i ; k<10 ; k+=2) \backslash n " ;$
cout<<"for (j=i; j>0; j--) \n";
cout<<"cout<<* ; \n";
cout<<"\} \n";
cout<<" \} \n";
cout<<"intmain() \n";
cout<<"\{ int i,j,k; \n";
cout<<"Draw_tree(); \n";
cout<<"Dvoutraw_tree(); \n";
cout<<"Draw_tree(); \n";
cout<<"Draw_tree(); \n";
cout<<"for (i=1;i<=6;i+=2) \{ \n";
cout<<"for $(k=4 ; k>0 ; k-=1)$ n"
cout<<"for (j=3; j>0; j--) \n";
cout<<"cout<<* ; \n";
cout<<"\}\n";
cout<<"\} \n";
cout<<"***********
\#include<iostream>
cout<<"int opera on (int $a$, int b) \n";
cout<<" \{return(a*b);\}\n";
cout<<" float operation (float a , int b) \n";
cout<<" \{return (a+b) ; \} \n";
cout<<"float operation (float $a$, float b) \n";
cout<<" \{return(a/b);\}\n";
cout<<"intmain() \n";
cout<<" \{int $a=3, b=2 ; \backslash n "$;
cout $\ll$ "float $c=2.5, \mathrm{~d}=4.5$; $\backslash \mathrm{n} "$;
cout<<"cout<<reslt=<< opera on (a,b); \n";
cout<<"cout<<\n reslt=<< operation (c,d); ${ }^{(n " ; ~}$
cout<<" cout<<\n reslt=<< operation (c,a); \n";
cout<<" \} \n";
cout<<"****************************************************) n
cout<<"\#include <iostream>\n";
cout<<"using namespace std; \n";
cout<<"void prime_num(int); ${ }^{\text {n" }}$;
cout<<"int main() \n";
cout<<"\{\n";
cout<<" cout << Enter a number and I will generate the prime numbers up to that number: ;"; cout<<"int num $=0 ; \backslash n "$
cout<<"cin >> num; \n";
cout<<"prime_num (num); \n";
cout<<"\} \n";
cout<<"void prime_num( int num) \n";
cout<<" $\{\backslash n$ ";
cout<<"bool isPrime=true; \n";
cout<<"for ( int $i=0$; i $<=$ num; i++) \n";
cout<<"\{\n";
cout<<"for ( int $j=2$; j <= num; j++) \n";
cout<<" $\{\backslash n$ ";
cout<<"if ( i!=j \&\& i \% j == 0 ) \n";
cout<<" $\{\backslash n$ ";
cout<<"isPrime=false; $\backslash n$ ";
cout<<" break; \n";
cout<<" \} \n";
cout<<"\} \n";

> cout<<"if (isPrime) \n";
cout<<" $\{\backslash n$ ";
cout<<"cout <<Prime:<< i << endl\n";
cout<<"\} \n";
cout<<"isPrime=true; $\backslash n$ ";
cout<<"\} \n";
cout<<"**********************************************************
cout<<"\#include <iostream>\n";
cout<<"using namespace std; \n";
cout<<"void Num(int \&x , int \&y, int \&z)";
cout<<"\{\n";
cout<<"\t $x=x * 2 ;$ n";
cout<<"\t $y=y * 2 ;$ n";
cout<<"\t $z=z * 2 ;$ n";
cout<<"return;"
cout<<"cout<<Helo; \n"; // not print
cout<<" \} \n";
cout<<"int main() \n";
cout<<"\{\n";
cout<<"int $x=1, y=3, z=5 ; \backslash n " ;$
cout<<"Num (x,y,z); n ";
cout<<"cout<<x = <<x<<\ny = <<y<<\nz = <<z<<endl; \n";
cout<<"return 0; ${ }^{\text {n" }}$;
cout<<" \} \n";

cout<<"\#include<iostream>\n";
cout<<"using namespace std; ${ }^{\prime}$ n";
cout<<"int $x=5 ; \backslash n " ;$
cout<<"void fun() $\backslash n$ ";
cout<<"\{\n";

> cout<<"int x;";
cout<<"x=10; \n"
cout<<": :x=0;";

```
cout<<"}\n";
```

cout<<"int main() \n";
cout<<" $\{\backslash n$ "
cout<<"cout << x << endl;";
cout<<"fun (); \n";
cout<<"cout << x << endl; ${ }^{2} n " ;$
cout<<" \} \n";
\}
void raed25()
\{
cout<<"\#include <iostream>\n";
cout<<"using namespace std ; $\backslash n " ;$
cout<<"int main() \n";
cout<<"\{\n";
cout<<"cout<<abs (-5.3);";
cout<<"return 0;";
cout<<"\}";
cout<<"****************************************************
cout<<"\#include <cmath>\n"; // take double
cout<<"using namespace std ; \n";
cout<<"int main() \n";
cout<<" $\{\backslash n$ ";
cout<<"cout<<abs(-5.3);"; // 5.3
cout<<"return 0; \n";
cout<<"\} \n";
cout<<abs(-5.3); // 5.3
cout<<"*****************************************************的
cout<<"\#include <iostream>\n";
//\#include <cstdlib>
cout<<"\#include <cmath>\n"; // take double
cout<<"using namespace std ; $\backslash n "$;
cout<<"int main() \n";
cout<<" $\{\backslash \mathrm{n}$ ";
// fabs = // \#include <cmath>
cout<<"cout<<abs (-5) <<endl; $\backslash \mathrm{n} "$;
// if write fabs = 5.3
// if write fabs(-1) = Erorre
cout<<"return 0;";
cout<<"\} \n";

cout<<"\#include <iostream>\n";
cout<<"\#include <cmath>\n"; // take double
cout<<"using namespace std ; $\backslash n$ ";
cout<<"int main() \n";
cout<<"\{\n";
cout<<"cout<<ceil(18.1)<<endl; \n"; // if erite ceil(18) = erorre
cout<<"return $0 ; \backslash n "$;
cout<<" \} \n";

cout<<"Example returns collects numeric value and returns the result to the program. \n";
cout<<"\#include<iostream>\n";
cout<<"int addi on(int $a$,int b) $\backslash n "$;
cout<<"\{\n";
cout<<"int reslt; ${ }^{\text {n"; }}$
cout<<"reslt=a+b;";
cout<<"return( reslt); \n";
cout<<"\} \n";
cout<<"intmain() \n";
cout<<"\{\n";
cout<<"int reslt; \n";
cout<<"reslt= addi on $(3,7) ; \backslash n " ;$
cout<<"cout<< reslt<<\n; \n";
cout<<"reslt= addition $(2,3) ;$ n";
cout<<"cout<< reslt<<\n; $\ n "$;
cout<<" $\} \backslash n "$;
cout<<"(function) Without a repeat value: \n";
cout<<"Function Oa that does not contain a value attributed to the program. ln ";
cout<<"Implemented in Dakhl not bring any value to the program may $\backslash n$ n";
cout<<"Receives valuesfor $k a$ not return any value and know ma\n";
cout<<"name (parameter1, parameter2,......) \{ statement\}; ${ }^{\text {n }}$ ";
cout<<"\#include<iostream>\n";
cout<<"massageShow() \n";
cout<<" $\{\backslash n$ ";
cout<<"cout<<hi Mr.hussien; ; \n";
cout<<"\}\n";
cout<<" int main() \n";
cout<<"\{\n";
cout<<"massageShow()\n";
cout<<"\}\n";

cout<<"Transmission at transmission and Datum: $\backslash n$ ";
cout<<"Send to a function variables must be sent to one of two ways $\backslash n$ ";
cout<<"1. Transmission value: just send the value of the variable to any function if the value of the variable changes inside the function does not change the original $\backslash n "$;
cout<<"Within the program we sent only to function to Maal (Ie not returned more than one value to the main program) \n";
cout<<"\#include<iostream>\n";
cout<<"int powA(int $x, i n t n) \backslash n " ;$
cout<<" Cn \{";
cout<<"int i, reslt $=1 ; \backslash n "$;
cout<<"for (i=0 ;i<n ;i++) \n";
cout<<" reslt = reslt *x; ${ }^{\prime}$ ";
cout<<"return( reslt);";
cout<<" $\}$ \n";
cout<<"int main() \n";
cout<<"\{int reslt,x,n; $\backslash n " ;$
cout<<"x=3, n=4; \n";
cout<<"reslt= powA (x,n); n ";
cout<<"cout<< powA=<<reslt<< n ; $\backslash \mathrm{n} "$;
cout<<"x=5, n=2;";
cout<<"reslt= powA (x,n);";
cout<<"cout<<powA=<<reslt<<\n;";
cout<<" \} \n";
\}
void raed24()
\{
cout<<" (Function) \n";
cout<<"So (c, c + +) that use not jad value figure raised to powers. And zh functions Kla designed by language designers \n";
cout<<"l programmers instead programmed to write the number of lines to find the value brought to the forces of n";
cout<<"Found kma\n";
cout<<"example if we value the five raised to the power of three (pow) 5) Without a function $\wedge$ For ${ }^{\text {n }}$ ";
cout<<"int i,pow1=1; \n";
cout<<"For (i=0 ; i<3 ; i++) \n";
cout<<"pow1=pow1*5; \n";
int i,pow1=1;
for (i=0 ;i<3 ;i++)
pow1=pow1*5;
cout<<"First found the difference to the way we used three lines and scripts second method we used a single software line was \n";
cout<<"Result herself to piece utility functions a o reduce lines of code and prevent a repeat of codes more than once if Ahtaj\n";
cout<<"We will have to repeat (pow), for example raising the number to the forces of ten times in our program in the case without the use of the function $\backslash n$ ";
cout<<"Three steps ten times whenever we needed which will increase the complexity of the program while by zh function will reduce\n";
cout<<"Html and prevent repetition whenever Nanaja NstdaIf ma speak for functions Gaah and also can build functions Bnevsna\n";
cout<<"In order to prevent the repetition of certain lines software and increase the tracking program as the programmers did in building functions\n";
cout<<"\t Type name (parameter1, parameter2,.......) \n";
cout<<" \t $\{\backslash n$ ";
cout<<"\t Statement; \n";
cout<<"Return (type); \n";
cout<<"\t \}\n";
cout<<"Two types \n";
cout<<" (return) 1. Ahda re after and be the next when and must contain the return value of the program\n";
cout<<"reslt =name (var1, var2,.....); \n";
cout<<"Since a return value must store the returned value in a variable of the same type of value returned any if the type of the value returned $\backslash n " ;$
cout<<" (integer) variable of type (reslt) must be defined (integer) to store result return value\n";
cout<<"2. Second not bring any value to the program summons to implement what in Dakhla and everything and does not contain the Dakhl\n";
cout<<"name(var1, var2,.....); $\backslash n "$;
cout<<"For not return any value and method program write the name of the function kma\n";
cout<<"To be clear. (addition) work Daltk Flo built function combines numeric function was called ${ }^{\prime}$ ";
cout<<"The reception function variables sent by the order. Every variable within Function must Tar Example\n"; cout<<"Int disp(parameter1, parameter2,......) \{ statement\}; \n";
cout<<"Sequence of the implementation of the program starts step by step but noted the arrival to step (5) function call to piece convey implementation $\backslash n "$;
cout<<" (6) that in Dakhla then returns to a program to implement step (9, 10 and 11 - program order Executes steps (8\n";
cout<<" (Statement) a process to be function PERFORMED at \n";
cout<<"1.Variables defined within functions Tantaa Ha implementation of the last line in the function. If variable\n";
cout<<"When function Anta performed When you call the function again be five because $H$ (i $=$ out becom (5\n";
cout<<"Call Pant ${ }^{a}$ a former and returned to primary before ......... change! n ";
cout<<"2. She writes function after declaring libraries directly $\backslash n$ ";
cout<<"3. Function that is Ktapta deal within the program HalLike any function of language functions ${ }^{\prime}$ ";
\}

## void Functions()

\{
cout<<
"Welcome Functions \n";
cout<<"Please select from the following:\n";
cout<<"1-Explain\n";
cout<<"2-Codes p\n";
cout<<"3-code Functions\n";
cout<<"4-Special questions\n";

```
cout<<"5-Exit\n";
int m ;
cin>>m;
system("cls");
switch(m)
{
case 1:raed24();break;
case 2:raed25();break;
case 3:raed26();break;
case 4:raed27();break
case 5:raed32();break
}
}
```

void raed23()
\{
cout<<"q1- Program folk enter a number and then printed a box of starlets stars nominally e number\n";
cout<<"If you enter entrance figure 4 that the number of starlets $P 4$ of longitude\n\n".
cout<<"q2-People read a matrix of numbers health fairway int then search for acces $\backslash n=$;
cout<<"Repeated, deleted and only one bug) this program to remove the redundancy $\backslash \mathrm{n} "$;
\}
void raed22()
\{
cout<<"\#include<iostream>\n";
cout<<"int main() \n"
cout<<"\{\n";
cout<<"int i,j; $\backslash n " ;$
cout<<"for (i=1; i<=10; i++) \n";
cout<<"\{\n";

cout<<"for ( $j=1 ; ~ j<=10 ; ~ j++) \backslash n " ;$
cout<<"cout<< j<< * <<i<<i*j<<\n;";
cout<<"\}\n";
cout<<"\} \n";
int i,j;
for ( $i=1$; $i<=10$; $i++$ )

for ( $j=1 ; ~ j<=10 ; ~ j++)$
cout $\ll$ j<<" * " <<i<<"="<<i*j<<"\n";
cout<<"\n";
cout<<"\#include<iostream>\n";
cout<<"int main() \n";
cout<<"\{\n";
cout<<"int i,j; \n";
cout<<"for (i=2; i<7; i++) \n";
cout<<" \{ \n";
cout<<"for (j=1; j<i; j++) \n"
cout<<"cout<<j ; \n";
cout<<"\} \n";
cout<<" $\} \backslash n "$;
for $(i=2 ; i<7 ; i++$
for (j=1; j<i; j++)
cout<<j ;
cout<<"\n" .
cout<<"\#include<iostream>\n";
cout<<"int main() \n";
cout<<"\{\n";
cout<<"int star , empty ; \n";
cout<<"for (star=1; star <=5; star ++) \n";
cout<<"\{\n";
cout<<"for( empty =1; empty < star ; empty ++) \n";
cout<<"cout<<*\n ;";
cout<<"\} \n";
cout<<" $\} \backslash n$ ";
int star , empty ;
for (star=1; star $<=5$; star ++ )
for ( empty $=1$; empty < star ; empty ++)
cout<<" " ;
cout<<"*\n" ;
\}
void raed21()
\{
cout<<"We explained previously on the ferry the usual Nanaja iterative to repeat the lines of code and one or
several lines for the purpose. $\mathrm{nn}^{\prime \prime}$;
cout<<"Iterative (or phrases (for) either zh phrase repetition will not only repeated lines software but repeated
phrases\n";
cout<<"Interior (for) mother would prepare (for) there at Dakhla any in several (while, do-while iterative other
$\mathrm{K} \backslash \mathrm{n}$ ";
cout<<"All Aadata. Hala Like any software inside step is iterative and including that the repeatability of
Interior statement passes when\n";
cout<<"Every few words repeatability parent piece in every few Lam longer term repeatability of Interior all
possible Aadata by\n";
cout<<"Chert\n".
cout<<"\t for (Initializing1; Boolean_Expression1; Update1)\n";
cout<<"\t \{\n";
cout<<"\t for (Initializing2; Boolean_Expression2; Update2) \n";
cout<<"\t\{ \t";
cout<<"\t statement \n";
cout<<"\t\} \n";
cout<<"\t\} \n";
cout<<"For example if we hadma overlap\n";
cout<<" for (j=0; j<5; j++) \n";
cout<<"\{\n";
cout<<"for (i=0; i<5; i++) \n";
cout<<"\{\n";
cout<<"Statement2\n";
cout<<"Statement1\n";
cout<<"\}\n";
cout<<"In step (2) from zero to four and implemented (for) in step (1) is (for) every several for $\backslash \mathrm{n}$ "; cout<<"Once for each kit. \n";
cout<<"What exists will be implemented within sequentially step-by-step Oảa steps (j = because the outside when the counter starts counting (0 \n";
cout<<" (2, 3 and 4). First step will be implemented (2) Since the step (2) also counter begin ${ }^{\text {a ma }}$ internal counter counting $\backslash n " ;$
cout<<" (To reality in parentheses Step (2 (Statement zero to five and every several implements step (3) Oa
(2) \n";
cout<<"When a the interior of Aadat counter will move to carry out what the arc after the counter in step (2)
step (4) will be implemented $1 \backslash n " ;$
cout<<"Once up in the step (5) to arc (ends) repetitive phrase (Statement1) n ";
cout<<"Foreign step (1) and including An arrived to arc repetitive phrase will return to the Foreign step $\backslash \mathrm{n}$ ";
\}

```
void forloop()
```

\{
cout<< "Welcome for loop\n";
cout<<"Please select from the following: \n";
cout<<"1-Explain\n";
cout<<"2-Codes \n";
cout<<"3-Special questions\n";
cout<<"Exit\n";
int $y$;
cin>>y
system("cls");
switch (y)
\{
case 1:raed21();break
case 2:raed22();break
case 3:raed23();break
case 4:raed32();break
\}
\}
void raed20()
\{
cout<<"Q1-Allowed to enter 31 numbers and Khnbar each number is a pair or individually? \n";
cout<<"q2-Write a program that calculates the first ten elements of the series\n";
\}
void raed19()
\{
cout<<"\#include<iostream>\n";
cout<<"int main() \n"
cout<<"\{\n";
cout<<"int i; ${ }^{\prime}$ n";
cout<<"for (i=0; i<5; i++)";
cout<<"cout<<i \n";
cout<<"\} \n";
int i;
for ( $i=0$; $i<5$; $i++$ )
cout<<i<<"\t\n";
cout<<"\#include<iostream>\n";
cout<<"int main() \n";
cout<<"\{\n";
cout<<"int $n$ \n";
cout<<"int sum=0; \n";
cout<<"for ( $\mathrm{n}=1$; $\mathrm{n}<100$; $\mathrm{n}=\mathrm{n}+2$ ) \n";
cout<<" sum $+=n$; $\backslash n "$;
cout<<"cout<<sum=<<sum; $\backslash n " ;$
cout<<"\}\n";
int sum=0;
for ( $n=1$; $n<100$; $n=n+2$ )
sum $+=\mathrm{n}$;
cout $\ll$ "sum=" $\ll$ sum;
cout<<"\#include<iostream>\n";
cout<<"int main() \n";
cout<<"\{\n";
cout<<"int i,input_number; $\$ n";
cout<<"int booleanx=0; \n";
cout<<"cin>> input_number;";
cout<<"for(i=2;i< input_number ;i++) \n";
cout<<"if( input_number\%i==0) \n";
cout<<"booleanx=1; \n";
cout<<"if (booleanx==1) \n";
cout<<"cout<<The Number is no prime ; \n";
cout<<"else\n";
cout<<"cout<< The Number is prime ; $\backslash n "$;
cout<<"\} \n";
int input_number;
int booleanx=0;
cin>> input_number;
for(i=2;i< input_number ;i++)
if( input_number\%i==0)
booleanx=1;
if (booleanx==1)
cout<<"The Number is no prime" ;
else
cout<<"The Number is prime";
cout<<"\#include<iostream>\n";
cout<<"int main() \n";
cout<<"\{\n";
cout<<"int i, number; $\backslash n$ ";
cout<<"int fact=1 $\backslash n$ ";
cout<<"cin>> number ; \n";
cout<<"for (i=1;i<= number ;i++) \n";
cout<<"fact = fact *i; ${ }^{n}$ ";
cout<<"cout<<factoral= << fact ; \n";
cout<<"\} \n";
int number;
int fact=1;
cin>> number ;
for (i=1;i<= number $; i++$ )
fact $=$ fact *i;
cout<<"factoral= "<< fact ;
cout<<"\#include <iostream>\n";
cout<<"int main()";
cout<<" $\{\backslash n$ ";
cout<<"int $b=0, x=0, m a r k=0, z=0 ;$ n";
cout<<"for $(x=1 ; x<=6 ;++x) \backslash n " ;$
cout<<" $\{\backslash n$ ";
cout<<"cin>>mark; \n";
cout<<"if(mark>=0) \n";
cout<<"z=mark+z; \n";
cout<<"else\n";
cout<<"b=mark+b; \n";
cout<<"\} \n";
cout<<"cout<<sum of positives=<<z<<endl; \n";
cout<<"cout<<sum of negatives=<<b<<endl; \n";
cout<<"\}\n";
int $b=0, x=0, \operatorname{mark}=0, z=0$;
for ( $\mathrm{x}=1$; $\mathrm{x}<=6$; + x )
\{
cin>>mark;
if (mark>=0)
$z=m a r k+z$;
else
b=mark+b;
\}
cout<<"sum of positives="<<z<<endl;
cout<<"sum of negatives="<<b<<endl;
\}
void raed18()
\{
cout<<"Program starts step by step implementation without repeating any step that up to $\backslash n=$;
cout<<"Police in the program may be Besbbnak exception some of the steps (if) program and worked in the case of sentences \n";
cout<<"Implementation if there is no requirement. Question na What if we wanted to repeat a step or more of the step more than once for some reason how $\backslash n$ ";
cout<<"iterative phrase used to repeat a step in the case did not (For) working piece and recursive functions and words\n";
cout<<"Put parentheses or a series of steps in case Hsraa between brackets for a certain number of times
programmed . And Chka year\n";
cout<<"And writes the following formula\n";
cout<<"\t for (Initializing; Boolean_Expression; Update) \n";
cout<<" $\{\backslash n$ ";
cout<<"statement\n";
cout<<" $\} \backslash n \backslash n " ;$
cout<<"Initializing:primitive value given to a variable that Mna will count. ln ";
cout<<" (for)will come out of the words $\backslash n$ ";
cout<<" (Boolean_Expression) : Repetitive phrase continue iterating (True) In other words, as long as the test result $\backslash n$ ";
cout<<" cessation clause, for example, one starts counting from (i <out of the repetitive phrase. Example (5 (False) and Matthew became\n"
cout<<"(False) result of the comparison (i = stop if it becomes ) \n";
cout<<"Sentences between parentheses repetitive phrase influential redundancy clause in the new session $\backslash n=$; cout<<"No one need to Oda"a within parentheses and if more than a step should Daa inside parentheses. A " ;
\}
void forl()
\{
cout<< "Welcomefor \n";
cout<<"Please select from the following:\n";
cout<<"1-Explain\n";
cout<<"2-Codes $\backslash n$ ";
cout<<"3-Special questions\n"
cout<<"Exit\n";
int f;
cin>>f;
system("cls");
switch (f)
\{
case 1:raed18();break;
case 2:raed19();break
case 3:raed20();break
case 4:raed32();break
\}
\}

```
void Increment ()
```

\{
cout<<"Mean increase variable by only one which is an acronym for the following inter\t\ti=i+1; ${ }^{\prime}$ ";
cout<<"Variable and can increase any amount of the following form
cout<<"Or minus variable want listed as below l \tt i $-=5$; $\backslash \mathrm{n}$ ";
cout<<"The difference between ++i;i++\n";
cout<<"Print, and then increase by one I++; \n";
cout<<"Increase by one and then print $++\mathrm{I} ; \mathrm{n} " ;$
cout <<"******************************************* $\backslash n "$;
int $a, b ;$
cin>>a>>b;
++a;
--b;
cout<<a<<endl;
cout<<<b<<endl;
\}
void raed17()
\{
cout<<"@1-write a program to compute the sum of even numbers from some numbers until by using DO/WHILE
loop? \n";
cout<<"@2-write a program using DO/WHILE to compute factorial?\n";
\}
void raed16()
\{
cout<<"\#include<iostream>\n";
cout<<"int main() \n";
cout<<"\{\n";
cout<<"int $a, b=0 ;$ n";
cout<<"do\n";
cout<<" $\{\backslash n$ ";
cout<<"cin>>a; \n";
cout<<"if $(a \% 2==0) \backslash n "$;
cout $\ll$ "b=b+a; \n";
cout<<" \} \n";
cout<<"cout<<while(a!=0); \n";
cout<<"cout<<b;";
cout<<"\}\n";
int $a, b=0$;
do
\{ cin>>a;
if $(a \% 2==0)$
$b=b+a$;
\} while(a!=0);
cout<<b;
cout<<"***********************************************************************)

```
cout<<"#include<iostream>\n";
cout<<"using namespace std;\n";
cout<<"int main()\n";
cout<<"{\n";
    cout<<"int counter;\n";
    cout<<"cout<<How many hellos?;\n";
    cout<<"cin>>counter;\n";
        cout<<"do\n";
        cout<<"{\n";
                cout<<"cout<<Hello\n";
                cout<<"counter--;\n";
        cout<<"}\n";
        cout<<"while (counter>0);\n";
        cout<<"cout<<Counter is:<<counter<<endl;\n";
cout<<"return 0;\n";
cout<<"}\n";
    int counter;
    cout<<"How many hellos?";
    cin>>counter;
        do
        {
            cout<<"Hello\n";
            counter--;
        }
        while (counter>0);
        cout<<"Counter is:"<<counter<<endl;
cout<<"****************************************************************************)
cout<<"#include<iostream>\n";
cout<<"int main()\n";
cout<<"{\n";
cout<<"int i=0;\n";
cout<<"do {\n";
cout<<"cout<<i<<\t;\n";
cout<<" i++;}\n";
cout<<" while( i<5);\n";
cout<<"\n}\n";
int i=0;
do {
cout<<i<<"\t";
    i++;}
    while( i<5).
cout<<"#include<iostream>"<<endl;
cout<<"intmain()\n";
cout<<"{\n";
    cout<<"int n=1;\n";
cout<<"int sum=0;\n";
cout<<"do\n";
cout<<"{ sum += n ;\n";
cout<<" n=n+2;} while( n<100);\n";
cout<<"cout<<sum=<<sum;}\n";
int n=1;
int sum=0;
do
{
    sum += n ;
    n=n+2;
}
while( n<100);
cout<<"sum="<<sum;
}
```

void raed15()
\{
cout<<"Is a phrase used to repeat the iterative steps software enclosed in brackets the number of times that are
very similar to the phrase\n";
cout<<"(for) and (while) only difference between binge (whiledo) implemented the first brackets then checks the
condition\n";
cout<<endl;
cout<<"And writes the formula Tayeh: \n";
cout<<"\t\tInitializing\n";
cout<<"\t\tdo \{\n";

cout<<"\t\tUpdate\n";
cout<<"\t\t\} \n";
cout<<"\nwhile ( Boolean_Expression); \n";
cout<<"do\n";
cout<<" $\{\backslash n$ ";
cout<<"Statements...\n"
cout<<" $\} \backslash n "$;
cout<<"while (condition) \n";
\}

```
void whiledo()
{
    cout<< "Welcome while do \n";
cout<<"Please select from the following:\n";
cout<<"1-Explain\n";
cout<<"2-Codes\n";
cout<<"3-Special questions\n";
cout<<"Exit\n";
int u;
cin>>u;
system("cls");
switch(u)
{
    case 1:raed15();break;
    case 2:raed16();break;
    case 3:raed17();break;
    case 4:raed32();break;
}
}
void raed31()
{
cout<<"q1-Program prints the descending numbers of 1-100?\\n\n";
cout<<"Program prints the numbers Tsaeidiamn 1-100?\n";
}
void raed14()
{
cout<<"#include<iostream>\n";
cout<<"intmain()\n";
cout<<"{int i=1,j;\n";
cout<<"while( i<=10) {\n";
cout<<"cout<<Multiply tabel for(<<i<<).\n--------------------------------------
cout<<" j=1;";
cout<<"while( j<=10)\n";
cout<<"{\n";
cout<<"cout<< j<< * <<i<<=<<i*j<<\n;\n";
cout<<"j++;}\n";
cout<<"cout<<\n;\n";
cout<<"i++;}";
cout<<"}\n";
int i=1;
int j;
while( i<=10)
{
cout<<"Multiply tabel for("<<i<<").\n-----------------------------------------
    j=1;
while( j<=10) {
cout<< j<<" * " <<i<<"="<<i*j<<"\n";
j++;}
cout<<"\n";
i++;
}
}
void raed13()
{
cout<<"Is a phrase used to repeat the iterative steps confined Alr.h between arcs numbering\n";
cout<<"times be quite similar to the phrase repetitions (for) and you can repeat structural\n";
cout<<"comparison between these two expressions Altkaretan will find Atchabha including\n\n\n";
cout<<"Be written as follows:\n";
cout<<"\tInitializing\n\n";
cout<<"\twhile (Boolean_Expression)\n";
cout<<"\t{\n";
cout<<"\tStatement;\n";
cout<<"\tUpdate\n";
cout<<"\t}\n";
cout<<endl;
cout<<" (Initializing): is initially given to the value of a variable that Sabda count\n";
cout<<" (Boolean_Expression): is Achartaltoagaf that when it becomes variable value unrealized for cessation
clause will come out\n";
cout<<"Of the words (while) In other words, as long as the result tested the (Boolean Expression) is\n";
cout<<"(True) ferry repeatability continue implementation between brackets and when become (False) out of the
wholesale\n";
cout<<" (Update): is the amount of the increase or decrease in the value of the variable in each cycle (loop)\n";
cout<<"For example, (A + +) or (i- -)\n";
cout<<" (Statement): is the code that steps will implement a number of times if a single step is no need to put
them inside\n";
cout<<"the arcs and if more than a step must be placed inside arches..\n";
}
void whil()
{
cout<<
```

```
"Welcome while \n";
```

"Welcome while \n";

```
"Welcome while \n";
cout<<"Please select from the following: \n";
cout<<"1-Explain\n";
cout<<"2-Codes n ";
cout<<"3-Special questions\n";
cout<<"4-Exit\n";
int b;
```

```
cin>>b;
system("cls");
switch(b)
Swi
case 1:raed13();break;
case 2:raed14();break;
case 3:raed31();break;
case 4:raed32();break;
}
}
void raedl2()
{
cout<<"l-write asimple calculator which only support +,-,*,/ ONLY \n";
cout<<"where it prompts the user to insert two integers.\n";
cout<<"Then ask the user to select the operation he/she wants to perform(+,-,*,/)\n";
cout<<endl;
cout<<"2-write aprogram that prompts the user to insert a shspe type\n";
cout<<"(rectangle , circle ,or cylinder) and the appropriate dimensions of the \n";
cout<<"shap\n";
}
void raed11()
{
cout<<"cout<< #include <iostream>;\n";
cout<<"using namespace std ;\n";
cout<<"int main()\n";
cout<<"{\n";
    cout<<"int num;\n";
    cout<<"cout<<enter a number :;\n";
    cout<<"cin>> num;\n";
    cout<<"switch (num)\n";
    cout<<"{\n";
        cout<<"case 1:cout<<output 1\n;break;\n";
        cout<<"case 2:cout<<output 2\n;break;\n";
        cout<<"case 3:cout<<output 3\n;break;\n";
        cout<<"case 4:\n";
        cout<<"case 5:cout<<output 5\n;break;\n";
        cout<<"default:\n";
            cout<<"cout<<output not\n;";
    cout<<"}\n";
```

int num;

## cin>>num;

switch (num)
\{
case 1:cout<<"output $1 \backslash n " ;$ break;
case 2:cout<<"output $2 \backslash n " ;$ break; case 3:cout<<"output $3 \backslash n " ; b r e a k ;$ case 4: case 5:cout<<"output 5\n";break;
default:
\}
system("cls");
cout<<"\#include <iostream>\n";
cout<<"using namespace std ; \n";
cout<<"int main() \n";
cout<<"\{\n";
cout<<"int $x ; \backslash n " ;$
cout<<"cout<<Enter month:;";
cout<<"cin>>x; \n";
cout<<"switch (x) \n";
cout<<" \{ \n";
cout<<"case 1:cout<<month is a fall Summer\n;break; \n"; cout<<"case 2:cout<<month is a fall Summer\n;break; \n"; cout<<"case 3:cout<<month is a fall Summer\n;break; \n";
cout<<"case 4:cout<<month is a fall Spring $\backslash n ;$ break; $\backslash n "$; cout<<"case 5:cout<<month is a fall Spring\n;break; \n"; cout<<"case 6:cout<<month is a fall Spring\n;break; ${ }^{\prime}$ ";
cout<<"case 7:cout<<month is a fall Cold\n;break; ${ }^{\prime}$ "; cout<<"case 8:cout<<month is a fall Cold\n;break; ${ }^{\prime}$ n"; cout<<"case 9:cout<<month is a fall Cold\n;break; ${ }^{\text {n"; }}$ cout<<"case 10:cout<<month is a fall Cold\n;break; \n"; cout<<"case 11:cout<<month is a fall Cold\n;break; \n"; cout<<"case 12:cout<<month is a fall Cold\n;break; \n";
cout<<"\} \n";
cout<<"return 0; \n";
cout<<" $\} \backslash n "$;

```
cout<<"Enter month:";
```

cin>>x;
switch (x)
\{
case 1:cout<<"month is a fall Summer\n";break;
case 2:cout<<"month is a fall Summer\n";break;
case 3:cout<<"month is a fall Summer\n";break;
case 4:cout<<"month is a fall Spring\n";break;
case 5:cout<<"month is a fall Spring\n";break;
case 6:cout<<"month is a fall Spring\n";break;
case 7:cout<<"month is a fall Cold\n";break;
case 8:cout<<"month is a fall Cold\n";break;
case 9:cout<<"month is a fall Cold\n";break;
case 10:cout<<"month is a fall cold\n";break,
case 11:cout<<"month is a fall Cold\n";break;
case 12:cout<<"month is a fall Cold\n";break;
\}
void raed10()
\{
cout<<"And is not verified. (switch) with the variable (Case) and compares the value at all (Case) a set
conditional statements $\backslash n "$;
cout<<"Second, if not achieved the second condition is transmitted to (Case) of the execution time if conditions
are not met the first condition is transmitted to\n";
cout<<"What will be implemented in Dakhlaa (Case) third until finally arrives condition which checks if one of the
(Case) \n";
cout<<" (if else if) and be very much Mchaba. (default) and the rest $B^{a} m l$ in if there were no executions one Mn ${ }^{a}$
will to carry out what the inside\n";
cout<<"General shape\n";
\}
void raed9 ()
\{
char $\mathrm{b}=3$;

Welcome if
switch" <<char (3) <<char (3) <<char (3) <<char (3) <<char (3) <<char (3) <<char (3) <<char (3) <<char (3) <<char (3) <<endl;
cout<<"Please select from the following:\n";
cout<<"1-Explain\n";
cout<<"2-Codes\n";
cout<<"3-Special questions\n";
cout<<"4-Exit\n";
int $z$;
cin>>z;
system("cls");
switch (z)
\{
case 1:raed10(); break
case 2:raed11();break;
case 3:raed12();break;
case 4:raed32();break;
\}
\}
void raed8(
\{
cout<<"1-//write a program to calculate the SUM of positive integers and the SUM of negative integers for 6
integers. \n"
cout<<endl;
cout<<"2-Program that will print the days of the week so if we pressed (1) Sundayr in implementation and the rest
screen sequentially ${ }^{n}$ ";
cout<<"(7) represents Saturday.? ${ }^{\prime}$ n";
\}
void raed7()
\{
cout<<" \#include<iostream>\n"
cout<<"intmain() \n";
cout<<"\{int $a ;$ n";
cout<<"cin>>a ; \n";
cout<<"If ( a>0 ) \n";
cout<<"cout<< (is greater than 1 is posi ve); $\backslash n " ;$
cout<<"else\n";
cout<<"cout<< (is less than 1 is nega ve); $\backslash n "$
cout<<" a=a+6; \n";
cout<<" \} \n";
int a;
cin>>a ;
if ( a>0 )
cout<< ("is greater than 1 is posi ve");
else
cout<< ("is less than 1 is nega ve");
cout<<a+6;
system("cls");
cout<<"\#include<iostream>\n";
cout<<"Main() \n";
cout<<" \{ \n";
cout<<"int input_Try; $\$ n";
cout<<"cin>> input_Try; $\backslash n " ;$
cout<<"if (input_Try>0) \n";
cout<<"if (input_Try \%2==0) \n";
cout<<"cout<<the number is positive even; \n";
cout<<"else\n";
cout<<"cout<< the number is positive Odd; \n";
cout<<"else\n";
cout<<"cout<<the number is less than zero; \n";
cout<<"\}\n";
int input_Try;
cin>> input_Try;
if (input_Try >0)
if (input_Try $\% 2==0$ )
cout<<"the number is positive even";
else
cout<<" the number is positive Odd";
else
cout<<"the number is less than zero";
\}
void raed6()
\{
cout<<" Conditional: (if - else) is\n";
cout<<"Nda (condition) a conditional statement is composed of two parts of Html\n";
cout<<"code that we want to implement the verification requirement $\backslash n$ ";
cout<<" (else) and that we want to implement in the absence of check condition Nda among arc (if) ${ }^{\text {a }}$ ";
\}
void raed5()
\{
cout<<
"Welcome if else\n";
cout<<"Please select from the following: \n";
cout<<"1-Explain\n";
cout<<"2-Codes \n";
cout<<"3-Special questions\n";
cout<<"4-Exit\n";
int $t$;
cin>>t;
system("cls");
switch(t)
\{
case 1:raed6();break;
case 2:raed7();break;
case 3:raed8();break;
case 4:raed32();break;
\}
\}
void raed4()
\{
cout<<"1-Enters user of implementation and screen printed letters $\backslash n$ ";
cout<<"were required showing when (a, b) Example 1: If we had variables n ";

cout<<"greater or equal to $a$, , $b$ is greater than $a) ? \backslash n " ;$
cout<<endl;
cout<<"2-//write a program to enter a letter and determine the letter is small or capital:-\n";
cout<<endl;
cout<<"3-//write a program to know positive, negative, odd and even numbers $\$ n";
\}
void raed3()
\{
cout<<"\#include <iostream>\n";
cout<<"using namespace std ; $\backslash n " ;$
cout<<"int main() \n";
cout<<"\{\n";
cout<<"int num; \n";
cout<<"cout<<enter a number :";
cout<<"cin>> num; \n";
cout<<"\{\n";
cout<<"if (num \% 2 == 0 ) \n";
cout<<"cout<<the number:<<num<\ll<is even:<<endl; ${ }^{\prime}$ n";
cout<<" if (num \% 2 !=0 ) \n";
cout<<"cout<<the number<<num is odd:<<endl; $\backslash n "$;
cout<<"\}\n";
cout<<"return 0; \n";
cout<<"\} \n";
int num;

```
cout<<"enter a number :";
cin>> num;
{
if (num % 2 == 0
    cout<<"the number:"<<num<<" "<<"is even:"<<endl;
    if (num % 2 !=0 )
        cout<<"the number:"<<num<<" "<<"is odd:"<<endl;
    }
cout<<"#include<iostream.h>\n";
cout<<"intmain()\n";
cout<<"{int a;\n";
cout<<"cin>>a;\n";
cout<<"if ( ( a>5 )&&(a<100) )\n";
cout<<"cout<<the number in this range\n";
```

system("cls");
cout<<"\}\n";
int a;
cin>>a
if ( $(a>5) \& \&(a<100)$ )
cout<<"the number in this range";
\}
void raed2()
\{
cout<<"Police usual: (if) $a: \backslash n " ;$
cout<<"The bracketed phrase conditional) only that condition statement a will come a phrase or sentence does not
implement what in Dakhla (ie\n";
cout<<"Even Executes (True) which must be result of conditions a comparison (condition) Oa if found after the
words $\backslash n$ ";
cout<<"Arc between the conditional phrase. $\backslash n$ n";
cout<<"(if) any planned that by the first quarter for implementation of the program steps sequence sequentially.
conditional phrase\n";
cout<<"Will cross all the steps (False) The result of the comparison a (condition) if the condition did not
achieve \n";
cout<<"Nor (and we knew in the first chapter How to be compared to conditions) (if) inside the parentheses of the
conditional phrase\n";
cout<<"Implemented the steps in between (True) which was the result of comparison a (condition) and if the
condition is met $\backslash n "$.
cout<<"Routinely observed Flipchart for the conduct of the program (if) the conditional phrase brackets n ";
cout<<"If we do not put Oqos behind the proviso meansa only line thatIf we put parentheses Khalafa ${ }^{\text {a }}$ Every $\backslash n=$
cout<<"Brackets be continued is conditional implemented if the condition does not implement if there is no
requirement \n";
cout<<"Program the user enters the screen implementation and if the number is greater of five message larger An
f five\n";
cout<<"Police commonly used\n";
\}
void raed1()
\{
char $b=3$;
cout $\ll$ " $\backslash t \backslash t$ " $\ll$ char (3) $\ll \operatorname{char}$ (3) $\ll \operatorname{char}$ (3) $\ll \operatorname{char}$ (3) $\ll \operatorname{char}$ (3) $\ll \operatorname{char}(3) \ll \operatorname{char}(3) \ll \operatorname{char}(3) \ll \operatorname{char}(3) \ll \operatorname{char}(3) \ll \operatorname{char}(3) \ll "$
Welcome If" <<char (3) <<char (3) <<char (3) <<char (3) <<char (3) <<char (3) <<char (3) <<char (3) <<char (3) <<char (3) <<endl;
cout<<"Please select from the following:\n";
cout<<"1-Explain\n";
cout<<"2-Codes $\backslash n "$;
cout<<"3-Special questions $\backslash \mathrm{n} "$;
cout<<"4-Exit\n";
int f;
cin>>f;
system("cls");
switch(f)
\{
case 1:raed2();break;
case 2:raed3();break;
case 3:raed4 ();break;
case 4:raed32();break;
\}
\}
void ifelse()
\{
char $\mathrm{p}=3$;
char $p=3 ;$
cout $\ll " \quad$ " $\ll \operatorname{char}(p) \ll \operatorname{char}(p) \ll \operatorname{char}(p) \ll \operatorname{char}(p) \ll \operatorname{char}(p) \ll "$ Welcome to If
else" $\ll \operatorname{char}(p) \ll \operatorname{char}(p) \ll \operatorname{char}(p) \ll \operatorname{char}(p) \ll \operatorname{char}(p) \ll \operatorname{char}(p) \ll e n d l$;
cout<<"That the conditional sentence based Bmagherna between two and implements that are or sentence applies
Achartohnak types";
cout<<"Including: \n";
cout <<"1-if $\backslash n$ ".
cout<<"2-if else\n";
cout<<"3-if switch n ";
int a;
cin>>a;
system("cls");
switch (a)
\{
case 1:raed1();break;
case 2:raed5();break
case 3:raed9();break;
case 4:int main();break;
cout<<"The software + + software that proved he found in the software world, $\backslash n$ ";
cout<<"where he worked on linking the idea of rights and continue to the world of software\n";
$\operatorname{cout} \ll \operatorname{char}(e) \ll \operatorname{char}(e) \ll \operatorname{char}(e) \ll \operatorname{char}(e) \ll \operatorname{char}(e) \ll \operatorname{char}(e) \ll \operatorname{char}(e) \ll \operatorname{char}(e) \ll \operatorname{char}(e) \ll \operatorname{char}(e) \ll \operatorname{char}(e) \ll \operatorname{char}(e) \ll$ $\operatorname{char}(e) \ll \operatorname{char}(e) \ll \operatorname{char}(e)$;
cout $\ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll c h a r(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll c h a r(r) \ll c h a r(r) \ll$ $\operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r$
 $r(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll$ $\operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r$ ) $\ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{cha}$ $r(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r) \ll \operatorname{char}(r)$;
cout<<endl<<endl;
cout<<"Please enter the number topic you want the front of your questions $\backslash n$ ";
cout $\ll$ " 1 " $\ll$ char $(w) \ll " i f$ else $\backslash n " ;$
cout<<"2"<<char(w) <<"while \n";
cout<<"3"<<char(w) <<"whiledo \n";
cout<<"4"<<char(w) <<"Increment value\n";
cout $\ll$ " 5 " $\ll$ char (w) $\ll$ "for $\backslash n "$;
cout<<"6"<<char (w) <<"forloop $\backslash n$ ";
cout<<"7"<<char(w) <<"Functions \n";
cout<<"8"<<char(w) <<"Arrays \n";
int $a$;
cin>>a;
system("cls");
switch (a)
\{
case 1:ifelse();break;
case 2:whil();break;
case 3:whiledo();break;
case 4:Increment();break;
case 5:forl();break;
case 6:forloop();break;
case 7:Functions();break;
case 8:Arrays ();break;
\}
//cout<<"Please select a topic that answers Tsa?ltk\n";
\}
int main()
\{
char $s=3$;
cout <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s)<<char (s) <<char (s) <<char (s) <<char (s)<<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s)<<char (s) <<char (s) <<endl;
cout $\ll$ char (s) $\ll$ "
cout $\ll$ char (s) $\ll "$ cout<<char (s) <<" cout<<char(s) $\ll "$ cout $\ll$ char (s) $\ll "$ cout $\ll$ char (s) $\ll "$ cout $\ll$ char (s) $\ll "$ cout $\ll$ char (s) $\ll$ " cout $\ll$ char (s) $\ll$ " cout<<char(s) <<" cout $\ll$ char (s) $\ll "$ cout $\ll$ char (s) $\ll "$ cout $\ll$ char (s) $\ll "$ cout $\ll$ char (s) $\ll "$ cout $\ll$ char (s) $\ll$ " cout $\ll$ char (s) $\ll "$ cout<<char (s) <<" cout $\ll$ char (s) $\ll$ " cout $\ll$ char (s) $\ll$ " cout<<char(s) <<" Please enter the number 1:
int $x ;$
cin >> x;
system("cls");
switch (x)
case 1:raed();break.
case 2:ifelse();break
\}
return 0; \}


[^0]:    / Name : Code cs101
    // Author : Ra'ed Abu wadaiea
    // Download by : Rafea Fheely
    // Copyright : Your copyright notice
    // Description : Hello World in C++, Ansi-style
    // The file was downloaded from the site Rafea edu
    \#include <iostream>
    \#include<string>
    \#include <cmath>
    using namespace std;
    void raed32()
    \{
    char $\mathrm{s}=3$;
    cout<<char (s) <<char (s) <<char (s)<<char (s)<<char (s)<<char (s)<<char (s)<<char (s)<<char (s)<<char (s)<<char (s) $\ll$ char (s) $\ll$ char (s) $\ll$ char (s) $\ll \operatorname{char}$ (s) $\ll$ char (s) $\ll$ char (s) $\ll$ char (s) $\ll$ char (s) $\ll$ char (s) $\ll$ char (s) $\ll$ char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) $\ll$ char (s) $\ll$ char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<endi;
    cout $\ll \operatorname{char}(\mathrm{s}) \ll " \quad$ "<<char(s) <<endl;
    cout $\ll \operatorname{char}(\mathrm{s}) \ll " \quad$ "<<char(s) <<endl;
    
    cout $\ll \operatorname{char}(\mathrm{s}) \ll " \quad$ " * * char (s) <<endl;
    cout $\ll \operatorname{char}(\mathrm{s}) \ll " \quad$ ******* $\quad$ "<char(s) <<endl;
    cout<<char (s) <<"
    "<<char(s) <<endl; / / / / / / / / / / /
    cout<<char(s) <<"

    *     *         *             *                 *                     *                         *                             *                                 *                                     *                                         * "<<char (s) <<endl;
    cout $\ll$ char (s) $\ll$ "
    cout<<char(s) <<'
    cout<<char(s)<<"
    cout<<char(s) <<"
    cout $\ll$ char (s) $\ll "$
    cout $\ll$ char (s) $\ll$ "
    cout<<char(s) <<"
    cout<<char(s) <<"
    cout<<char (s) $\ll$ "
    cout<<char (s) <<"
    " <<char (s) <<endl;
    "<<char(s) <<endl;
    " <<char (s) <<endl;
    "<<char(s) <<endl;
    " <<char(s) <<endl;
    " <<char (s) <<endl;
    "<<char (s) <<endl;
    " <<char (s) <<endl;
    "<<char(s) <<endl;
    " <<char (s) <<endl;
    "<<char (s) <<endl;
    cout <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s)<<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s)<<char (s)<<char (s) <<char (s) <<char (s)<<char (s)<<char (s)<<char (s)<<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<char (s) <<endl;

[^1]:    void raed30()
    \{
    cout<<"q1-Program to calculate the most character repetition and the number of times to repeat. In five text strings separately.? $\mathrm{n} \backslash \mathrm{n}$ ";
    cout<<"q2-Square matrix (5) Print only the main elements diameter? n ";
    \}
    void raed29()
    \{
    cout<<"\#include <iostream>\n";

