



```

cout<<"#include<string>\n";
cout<<"using namespace std;\n";
cout<<"int i,m, max,fou;\n";
cout<<"char a[45], charSaved[255];\n";
cout<<"repeat(char string[],int len)\n";
cout<<"{ int equavelentnumber[255]={0};\n";
  cout<<"for(i=0;i<255;i++)\n";
cout<<"charSaved[i]=char(i);\n";
cout<<"for(m=0;m<255;m++){ \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;}\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));\n";

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

  cout<<"for(i=0;i<=3;i++)\n";
    cout<<"A[i]=B[i]\n";
cout<<"cout << A[i];";
cout<<"}\n";
cout<<"void OutNumber(int A[])\n";
cout<<"{\n";
  cout<<"int i;\n";
  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];\n";
  cout<<"cout << endl;";
cout<<"}\n";
cout<<"void oddeven(int A[])\n";
cout<<"{\n";
  cout<<"int i;\n";
  cout<<"for(i=0;i<4;i++)\n";
  cout<<"{\n";
    cout<<"cin >> A[i];\n";
  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<<"}\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};\n";
  cout<<"int i,x;\n";

  cout<<"for(i=0;i<5;i++)\n";
  cout<<"{\n";
    cout<<"cin >> x;\n";
    cout<<"if (x==A[i])\n";
      cout<<"cout << Found << endl;\n";
    cout<<"else\n";
      cout<<"cout << Not Found << endl;\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];

  cout<<"for(i=0;i<5;i++)\n";
  cout<<"{\n";

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        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 Choose 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.";
}

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)
{
case 1:raed28();break;
case 2:raed29();break;
case 3:raed30();break;
case 4:raed32();break;
}
}

void raed27()
{
cout<<"q1-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";
}

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cout<<"{ int i,j,k;\n";

cout<<"for(i=1;i<=10;i+=2){\n";
cout<<"for(k=i;k<10;k+=2)\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<<"Dvoutdraw_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<<"*****\n";
#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;\n";
cout<<"float c=2.5,d=4.5;\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);\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;\n";
    cout<<"cin >> num;\n";
    cout<<"prime_num(num);\n";
cout<<"}\n";
cout<<"void prime_num( int num)\n";
cout<<"{\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<<"{\n";
    cout<<"if ( i!=j && i % j == 0 )\n";
cout<<"{\n";
    cout<<"isPrime=false;\n";
    cout<<" break;\n";
cout<<"}\n";
cout<<"}\n";
    cout<<"if (isPrime)\n";
cout<<"{\n";
    cout<<"cout <<Prime:<< i << endl\n";
cout<<"}\n";
    cout<<"isPrime=true;\n";
cout<<"}\n";
cout<<"*****\n";
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;\n";
    cout<<"Num (x,y,z);\n";
    cout<<"cout<<x = <<x<<\ny = <<y<<\nz = <<z<<endl;\n";
    cout<<"return 0;\n";

cout<<"}\n";
cout<<"*****\n";
cout<<"#include<iostream>\n";
cout<<"using namespace std;\n";
cout<<"int x=5;\n";
cout<<"void fun()\n";
cout<<"{\n";
    cout<<"int x;";
    cout<<"x=10;\n";
    cout<<"::x=0;";

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cout<<"}\n";

cout<<"int main()\n";
cout<<{"\n";
    cout<<"cout << x << endl;";
    cout<<"fun ();\n";
    cout<<"cout << x << endl;\n";
cout<<"}\n";

}

void raed25()
{
cout<<"#include <iostream>\n";
cout<<"using namespace std ;\n";
cout<<"int main()\n";
cout<<{"\n";
cout<<"cout<<abs(-5.3);";
cout<<"return 0;";
cout<<"}";
cout<<"*****\n";
cout<<"#include <cmath>\n"; // take double
cout<<"using namespace std ;\n";
cout<<"int main()\n";
cout<<{"\n";
cout<<"cout<<abs(-5.3);"; // 5.3
cout<<"return 0;\n";
cout<<"}\n";
cout<<abs(-5.3); // 5.3
cout<<"*****\n";
cout<<"#include <iostream>\n";
//#include <cstdlib>
cout<<"#include <cmath>\n"; // take double
cout<<"using namespace std ;\n";
cout<<"int main()\n";
cout<<{"\n";
// fabs = // #include <cmath>

cout<<"cout<<abs(-5)<<endl;\n";
// if write fabs = 5.3
// if write fabs(-1) = Erorre

cout<<"return 0;";
cout<<"}\n";
cout<<"*****\n";
cout<<"#include <iostream>\n";
cout<<"#include <cmath>\n"; // take double
cout<<"using namespace std ;\n";
cout<<"int main()\n";
cout<<{"\n";

cout<<"cout<<ceil(18.1)<<endl;\n"; // if erite ceil(18) = erorre

cout<<"return 0;\n";
cout<<"}\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)\n";
cout<<{"\n";
cout<<"int reslt;\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);\n";
cout<<"cout<< reslt<<\n;\n";
cout<<"reslt= addition(2,3);\n";
cout<<"cout<< reslt<<\n;\n";
cout<<"}\n";

cout<<"*****\n";
cout<<"(function) Without a repeat value: \n";
cout<<"Function Oa that does not contain a value attributed to the program.\n";
cout<<"Implemented in Dakhl not bring any value to the program may\n";
cout<<"Receives valuesfor Ka not return any value and know ma\n";
cout<<"name(parameter1, parameter2,.....) { statement};\n";
cout<<"#include<iostream>\n";
    cout<<"messageShow()\n";
cout<<{"\n";
cout<<"cout<<hi Mr.hussien;\n";
cout<<"}\n";
cout<<" int main()\n";
cout<<{"\n";
    cout<<"messageShow()\n";
cout<<"}\n";
cout<<"*****\n";
cout<<"Transmission at transmission and Datum:\n";

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cout<<"Send to a function variables must be sent to one of two ways\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 \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,int n)\n";
cout<<"\n{";
cout<<"int i, reslt =1;\n";
cout<<"for(i=0 ;i<n ;i++)\n";
cout<<" reslt = reslt *x;\n";
cout<<"return( reslt);";
cout<<"}\n";
cout<<"int main()\n";
cout<<"{int reslt,x,n;\n";
cout<<"x=3,n=4;\n";
cout<<"reslt= powA (x,n);\n";
cout<<"cout<< powA=<<reslt<<\n;\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 ^ For\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 ^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\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 Ga^zh 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 {\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 \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 Dakh1\n";
    cout<<"name(var1,var2,....);\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\n";

    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\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 Tant^a 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 former and returned to primary before ..... change!\n";
    cout<<"2. She writes function after declaring libraries directly\n";
    cout<<"3. Function that is Ktapta deal within the program Hallike any function of language functions\n";

}

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";
}

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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\n";
cout<<"Repeated, deleted and only one bug) this program to remove the redundancy \n";
}

void raed22()
{
cout<<"#include<iostream>\n";
cout<<"int main()\n";
cout<<"{\n";
cout<<"int i,j;\n";
cout<<"for (i=1; i<=10; i++)\n";
cout<<"{\n";
cout<<"cout<<Multiply tabel for(<<i<<).\n-----\n";
cout<<"for (j=1; j<=10; j++)\n";
cout<<"cout<< j<< * <<i<<i*j<<\n";
cout<<"}\n";
cout<<"}\n";

int i,j;
for (i=1; i<=10; i++)
cout<<"Multiply tabel for("<<i<<).\n-----\n";
for (j=1; j<=10; j++)
cout<< 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<<"}\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<<"}\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.\n";
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
K\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; Updatel)\n";

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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 \n";
cout<<"Once for each kit.\n";
cout<<"What exists will be implemented within sequentially step-by-step 0a 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 ama internal counter
counting \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\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\n";

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}

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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;\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 (n=1; n<100; n=n+2)\n";
cout<<" sum += n ;\n";
cout<<"cout<<sum=<<sum;\n";
cout<<"}\n";

int n;

```



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int sum=0;
for (n=1; n<100; n=n+2)
    sum += n ;
cout<<"sum="<<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 ;\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;\n";
cout<<"int fact=1\n";
cout<<"cin>> number ;\n";
cout<<"for(i=1;i<= number ;i++)\n";
cout<<"fact = fact *i;\n";
cout<<"cout<<factorial= << fact ;\n";
cout<<"}\n";

```

```

int number;
int fact=1;
cin>> number ;
for(i=1;i<= number ;i++)
fact = fact *i;
cout<<"factorial= "<< fact ;
cout<<"#include <iostream>\n";
cout<<"int main()";
cout<<"{\n";
cout<<"int b=0,x=0,mark=0,z=0;\n";
cout<<"for(x=1;x<=6;++x)\n";
cout<<"{\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,mark=0,z=0;
for(x=1;x<=6;++x)
{
cin>>mark;
if(mark>=0)
z=mark+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 \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\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 Hsr^a 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<<"{\n";
cout<<"statement\n";
cout<<"}\n\n";
cout<<"Initializing:primitive value given to a variable that Mna will count.\n";

```

```

cout<<"(for)will come out of the words\n";
cout<<"(Boolean_Expression) :Repetitive phrase continue iterating (True) In other words, as long as the test
result\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 \n";

cout<<"No one need to Oda^a within parentheses and if more than a step should Daa inside parentheses.\n";

}

void for1()
{
cout<< "Welcomefor \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 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;\n";
cout<<"Variable and can increase any amount of the following form\t\t i += 5\n";
cout<<"Or minus variable want listed as below\t\t i -= 5;\n";
cout<<"The difference between ++i;i++\n";
cout<<"Print, and then increase by one I++;\n";
cout<<"Increase by one and then print ++I;\n";
cout<<"*****\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<<"{\n";
cout<<"cin>>a;\n";
cout<<"if(a%2==0)\n";
cout<<"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<<"*****\n";
}

```

```

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<<"*****\n";
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 wrmula Tayeh:\n";
cout<<"\t\tInitializing\n";
cout<<"\t\t\tdo {\n";
cout<<"\t\t\tStatement;\n";
cout<<"\t\t\tUpdate\n";
cout<<"\t\t\t}\n";
cout<<"\nwhile ( Boolean_Expression);\n";

cout<<"do\n";
cout<<"{\n";
cout<<"Statements...\n";
cout<<"}\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-----\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-----\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 writtens:\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";
    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)
{
case 1:raed13();break;
case 2:raed14();break;
case 3:raed31();break;
case 4:raed32();break;
}
}
void raed12()
{
cout<<"1-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\n";break;
case 2:cout<<"output 2\n";break;
case 3:cout<<"output 3\n";break;
case 4:
case 5:cout<<"output 5\n";break;

default:
cout<<"output not\n";
}
system("cls");
cout<<"#include <iostream>\n";
cout<<"using namespace std ;\n";
cout<<"int main()\n";
cout<<"{\n";

cout<<"int x;\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\n;break;\n";
cout<<"case 5:cout<<month is a fall Spring\n;break;\n";
cout<<"case 6:cout<<month is a fall Spring\n;break;\n";

cout<<"case 7:cout<<month is a fall Cold\n;break;\n";
cout<<"case 8:cout<<month is a fall Cold\n;break;\n";
cout<<"case 9:cout<<month is a fall Cold\n;break;\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<<"}\n";

int x;

```



```

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;\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\n";
cout<<"(else) and that we want to implement in the absence of check condition Ndaa among arc (if)\n";

}
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\n";
cout<<"were required showing when (a, b) Example 1: If we had variables\n";
cout<<"(b not equal to a,, b is equal to a,, b smaller or equal to a,, b smaller than a,, b is\n";
cout<<"greater or equal to a,, b is greater than a)?\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 ;\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<< <<is even:<<endl;\n";

cout<<" if (num % 2 !=0 )\n";
cout<<"cout<<the number<<num is odd:<<endl;\n";
cout<<"}\n";
cout<<"return 0;\n";
cout<<"}\n";
int num;

```







```
int x;
cin >> x;

system("cls");
switch (x)
{
case 1:raed();break;
case 2:ifelse();break;
}

return 0;
}
```