

Jordan University of Science and Technology
CS102 Introduction to programming lab
First Semester 2009-2010
Mid Lab Exam 1-12-2010, Wed

Name:

ID:

Instructor:

Section:

Lab:

PC#:

1- Create a folder with your id number and save this folder at the Desktop Ex. 20100171000

2-For each question create a folder and name it as project#_id and save your project there.

Ex. Project2_20100171000

3- Write your name, section, your instructor name as a comment in each project

4- Compress your work and upload it to the e-learning + upload folder as the last step

5- Your Programs should be full of comments and with will identifier names

Q1) Write a program that prompts three integer numbers from the user then prints the sum, average, largest

EX. Please insert three integer numbers: 25 37 13

Sum is 75

Average is 25

Largest is 37

Q2) Write a program that prompts the user to insert a number and finds the result of the following sequence

n

$$\sum_{x=0}^{n} 2x^2 + x + 5$$

x=0

by using any loop

EX. Please insert a number: 3

The sum is 54

Q3) Write a program that asks the user if he/she want to add a new record, the answer should be (Y / N) if the user answer (Y) then the program prompts the user to insert the following :(Student Name, The grade)

Multiple time until the user press (N). The program will prints the average of the grades and the number of failures and the number of passes (loop + selection)

Ex.

Do you want to add: Y

Please insert the student Name: Ali

Please insert the grade: 90

Do you want to add: Y

Please insert the student Name: Ahmed

Please insert the grade: 80

Do you want to add: N

The Average is 85

The # of passes : 2

The # of failure : 0

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Q1)Write a program that prompts three integer numbers from the user then prints the product, average, smallest.

EX. Please insert three integer numbers: 6 10 8

Product is 480

Average is 8

Smallest is 6

Q2) Write a program that prompts the user to insert a number and finds the result of the following sequence

n

$$\sum_{x=0}^n 7x^3 + 2x$$

x=0

by using any loop

EX. Please insert a number: 2

The sum is 69

Q3) Write a program that asks the user if he/she want to add a new record, the answer should be (Y / N) if the user answer (Y) then the program prompts the user to insert the following :(Student Name, The grade)

Multiple time until the user press (N). The program will prints the average of the grades and the number of failures and the number of passes (loop + selection)

Ex.

Do you want to add: Y

Please insert the student Name: Ali

Please insert the grade: 90

Do you want to add: Y

Please insert the student Name: Ahmed

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Do you want to add: N

The Average is 85

The # of passes : 2

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