Home Work 05

Write C codes for solving the problems given below. Then compress all of the .c codes into a zip file named yourid.zip. Upload that zip file to the LMS.

1. Write a program to print "My name is __your name.".
2. Write a program to print the following using **multiple** print statements:
   My name is __yourname
   My faculty is Md. Fahim Bin Amin.
   I am learning "C" programming language.
   ΛCΛ Programming language is easier to understand!
3. Write a program to print the following using **a single** print statement.
   My name is __yourname
   My faculty is Md. Fahim Bin Amin.
   I am learning "C" programming language.
   ΛCΛ Programming language is easier to understand!
4. Print the following output.
   ```
   *************************************************************
   *        My name is X                                      *
   *                                                          *
   *************************************************************
   ```
5. Write a program to print the summation of two numbers. **Don't take user input**.
6. Write a program to print the summation of two numbers. **Take user input.**
7. Solve the following problem.

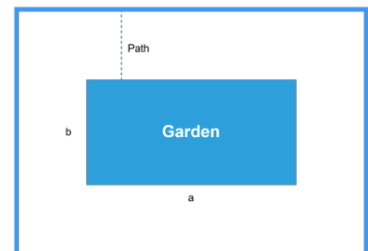   ### Calculate the Area of a Rectangular Garden and Surrounding Road

   Write a program that calculates the area of a rectangular garden and the area of a road surrounding the garden. The user will input the dimensions of the garden and the width of the road.

   Input

   Enter the width of the garden: 20
   Enter the length of the garden: 15
   Enter the width of the road surrounding the garden: 2

   Output

   The area of the garden is: 300 square meters
   The total area covered by the garden and the surrounding road is: 456 square meters

   a) Calculate the area of the path surrounding the garden.

b) Calculate the perimeter of the garden.
c) Calculate the total cost of paving the road. The user will input the cost per square meter of paving.
d) Calculate the volume of the box. The user will input the dimensions of the box (width, length, and height).

8. Find the average of **n** numbers. Take the value of n and the numbers from the user.
9. Write a program where the user will provide the input and the program will print the grade based on the grade table below.

Letter Grade	Marks %	Grade Point	Letter Grade	Marks%	Grade Point
A (Plain)	90-100	4.00	C+ (Plus)	70-73	2.33
A- (Minus)	86-89	3.67	C (Plain)	66-69	2.00
B+ (Plus)	82-85	3.33	C- (Minus)	62-65	1.67
B (Plain)	78-81	3.00	D+ (Plus)	58-61	1.33
B- (Minus)	74-77	2.67	D (Plain)	55-57	1.00
			F (Fail)	<55	0.00