|  |  |
| --- | --- |
|  | DEPARTMENT OF COMPUTER SCIENCE  FORMAN CHRISTIAN COLLEGE (A  CHARTERED UNIVERSITY), LAHORE |

**LAB 9**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ROLL No. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Time Allowed: 90 min**

**It’s an open books and open notes lab session. You CANNOT share your code with each other. You need to write code on MARS IDE, and once the tasks are completed, make sure to get them checked by the lab engineer in class timings. Any task not duly signed by the lab engineer will not be considered for grading. Upload your solution on Moodle.**

**Problem Statement [10 Marks]**

Write a program that accepts three numbers (positive or negative) from the user. Then write a **function** that determines the median of the three numbers and return/prints the result. A sample run is as follows:

Enter first number:27

Enter second number:110

Enter third number: -92

The median of the three numbers is: 27

**Problem Statement [10 Marks]**

Write a program that accepts a number from the user. Then write a function that calculates the factorial of this number. Then the program should accept another number from the user.

Use your function that you created earlier to calculate the second number’s factorial.

Add the two factorial values and display the calculated result along with an appropriate message.

Note that you are **not** allowed to create two separate functions to calculate the factorial. Use only one function to calculate the factorial of both the input values.

Incase the user enters a negative number, display an error message and exit the program. A sample run is as follows:

Enter a number to calculate its factorial: 6 The factorial of the first number is 720

Enter a number to calculate its factorial: 5

The factorial of the second number is 120

The sum of the two factorial values is 840