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|  | **Computer Organization & Assembly Language**  **BSCS-3**  **Department of Computer Science**  **Bahria University, Lahore Campus** |

**Assignment: [1]**

Date: Week 6, 31st March 2023

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Roll No: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Evaluation of CLO** | **Question Number** | **Marks** | **Obtained Marks** |
| **CLO2: Develop programming concepts of Assembly language.** | 1 | 5 |  |
| 2 | 5 |  |
| 3 | 5 |  |
|  |  |  |
| **Total Marks** | | **15** |  |

**Question 1: [Marks: 5]**

Implement a subprogram that prompt the user for 3 numbers, finds the median (middle value) of the 3, and returns that value to the calling program.

**Question 2: [Marks: 5]**

Write a recursive program to calculate factorial numbers. Use the definition of factorial as F(n) = n \* F(n-1).

**Question 04:** **[Marks: 5]**

Prompt the user for a number from 3..100, and determine the prime factors for that number. For example, 15 has prime factors 3 and 5. 60 has prime factors 2, 3, and 5. You only have to print out the prime factors, not how many times they occur (for example, in the number 60 2 occurs twice).