**Bahria University, Lahore Campus**

Department of Computer Sciences

Lab Journal 07

**(Spring 2023)**

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| Course: | **Computer Architecture & Organization Lab** |  |
| Course Code: | CEL 221 | Max Marks: 15 |
| Faculty’s Name: | Maryam Munawar | Lab Engineer: |

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enroll No: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## Lab Tasks:

### Task1: 5 Marks

Write programs to evaluate the following expressions. The user should enter the variables, and the program should print back an answer. x3 + 2y2 + 3z + 4

**Task 2: 5 Marks**

Write a program to enter the basic salary of an employee. If the basic salary is greater than 5,000 the employee gets 10% of basic salary as medical allowance and 5% as home allowance. For employees with salary less than 5,000 these allowances are 5% and 10% respectively. Given the salary of an employee, compute the gross salary use branches.

**Task 3: 5 Marks**

Convert the following Pseudo code to the assembly language code.

n = prompt("enter the value to calculate the sum up to: ")

total = 0; # Initial the total variable for sum

for (i = 0; i < n; i++)

{

total = total + i

}

print("Total = " + total);

**Lab Grading Sheet :**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Max Marks** | **Obtained Marks** | **Comments(*if any*)** |
| a. | 5 |  |  |
| b. | 5 |  |  |
| c. | 5 |  |  |
|  |  |  |  |
| **Total** | **15** |  | **Signature** |

**Note : Attempt all tasks and get them checked by your Instructor**