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

**Quiz: 4**

Date: Week 13, 14th June 2023

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

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

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| **Evaluation of CLO** | **Question Number** | **Marks** | **Obtained Marks** |
| **CLO 1,2,3: CLO statement**  *Simulate the internal representation of data, and show how data is stored and accessed in, I/O modules, and the interconnecting components of the computer systems* | 1 | 2.5 |  |
|  |  |  |
| **Total Marks** | | **2.5** |  |

**Question 1. Write assembly code of the bellow pseudo codes**

**a.**

The pseudo code for this subprogram follows.

Subprogram PrintIntArray(array, size)

{

print("[")

for (int i = 0; i < size; i++)

{

print("," + array[i])

}

print("]")

}

b.

Pseudo code for this algorithm follws.

for (int i = 0; i < size-1; i++)

{

for (int j = 0; j < ((size-1)-i); j++)

{

if (data[j] > data[j+1])

{

swap(data, j, j+1)

}

}

}

swap(data, i, j)

int tmp = data[i];

data[i] = data[j];

data[j] = tmp;

}