



COMSATS University Islamabad (Lahore Campus)

Lab-Midterm Spring 2024

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|---|---|-----------------|--------|---------------|--------|
| Course Title: | computer organization and assembly language | Course Code: | CSC325 | Credit Hours: | 3(2,1) |
| Course Instructor: | MUNAWAR UL ZAMAN | Programme Name: | BCS | | |
| Due Date: | 4/2/2024 | Maximum Marks: | 25 | | |
| <u>Important Instructions / Guidelines:</u> | | | | | |

Lab-Midterm Examination

Question No 1.

Marks: 05

CLO: <6>; Bloom Taxonomy Level: <creating>

Write an assembly language programme that add a series of 10 bytes stores in the memory from locations 20,000H to 20,009h. Store the result immediately after the series.

Question No 2.

Marks: 10

CLO: <6>; Bloom Taxonomy Level: <creating>

Write an assembly language Program in which If AL contains 1 or 3, display "o"; and if AL contains 2 or 4, display "e" in assembly code

Question No 3.

Marks: 10

CLO: <6>; Bloom Taxonomy Level: <creating>

Write an Assembly Language Program that reads a character and prints it only if it is an Upper-Case Letter

Note

INT 21h / AH=1 - read character from standard input, with echo, result is stored in **AL**. if there is no character in the keyboard buffer, the function waits until any key is pressed.
example:

```
mov ah, 1
int 21h
```

INT 21h / AH=2 - write character to standard output. entry: **DL** = character to write, after execution **AL = DL**.
example:

```
mov ah, 2
mov dl, 'a'
int 21h
```