



EL2003 – COAL-Lab Home Work 03 and 04(Input and Output)

Total Marks: 20

Weightage: 10

Note:

- Perform all task using loop and subroutine, otherwise zero credit.
- Zero marks will be given if the submitted solution is copied from any other student or from the internet.
- Platform NASM and DOSBox and AFD

Q #No 1: Write a program in Assembly Language. [5 wtg]

- Ask user to enter the table number and its limit (**2 marks**)
- Print the mathematical table on DOSBox screen (**8 marks**).

Sample Output: (Output format must be look like this:)

```
Enter Table No:      3
Enter Table Limit:   9
Output:
3 * 1 = 3
3 * 2 = 6
3 * 3 = 9
3 * 4 = 12
3 * 5 = 15
3 * 6 = 18
3 * 7 = 21
3 * 8 = 24
3 * 9 = 27
```

Q #No 2: Write a program in Assembly Language [5 wtg]

1. Ask user to enter a number. (5 marks)
 - Check entered number is Even or Odd, print the output.?
 - Check entered number is a Prime number, Print the output?
2. Take the ten (5) numbers as the input and display in sorted Order. (5 marks)

Sample Output:

```
Enter a number: 7
Output:
This is an Odd number.
This is a Prime number.
```

a)

```
b) Enter 10 numbers:
2 3 4 7 6 8 9 0 1 5
Sorted:
0 1 2 3 4 5 6 7 8 9
```

Submission: Upload all code files and MS Word file with code and with output screenshot.

NOTE: These Two question will be marked as separate homework (3 and 4).

Helping Links:

<https://github.com/ItsKhuramShahzad/AssemblyLanguage>