

National University of Computer and Emerging Sciences, Lahore Campus

Assignment 2 COAL

Deadline: 17 October 2023

Instructions

- Do **NOT** copy even a single line of code from any other person or book or Internet or any other source.
 - Late submissions will NOT be accepted, in any case.
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Task-1

[4]

Write a program which should display the following message on screen.

I won \$25000 in lottery but I lost \$5000.

Task-2

[4]

Declare a variable ALPHA in data area. Initialize it with 36. Then Display the value of ALPHA on screen.

(Hint: you have to display it digit by digit)

ALPHA is: 36

Task-3

[5]

Write a program which should prompt the user to enter three lowercase alphabets; converts and shows them as uppercase alphabets.

Enter three lowercase alphabets (a~z): **abc**
The output is: ABC

Task-4

[5]

Write a program which should prompt the user to enter a number between 0 and 9 and takes input in some variable. Now the program should prompt the user again to enter another number between the given ranges (9-firstNumber). You've to find out the range of second number such that the sum of two user given numbers should not exceed then 9. The input and output should be in the following format.

```
Enter a number between 0-9: 4
Enter a number between 0-5: 2
The sum is: 6
```

Task-5

[7]

Write a program which should take two numbers Num1 and Num2 from (0 to9) and display sum, difference (Num1 – Num2), multiplication and division (Num1/Num2) in following format. Suppose:

- a. Num1 > Num2
- b. Num1 + Num2 < 10
- c. Num1 * Num2 < 10
- d. Print the quotient of Num1/Num2.

```
Enter a number (0-9): 4
Enter another number (0-9): 2

Sum = 6
Difference = 2
Product = 8
Division = 2
```

Task-6

[10]

Write a program which should take two 2-digits numbers and store their sum in AX. [Hint: 42 = (4*10) + 2]

```
Enter a 2-digit number: 20
Enter another 2-digit number: 99
```