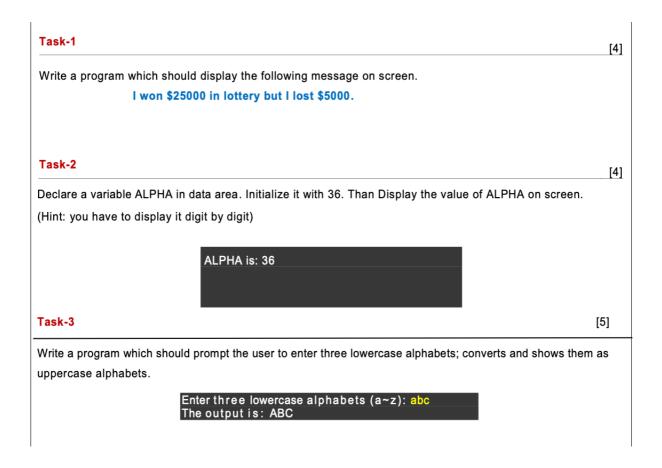# National University of Computer and Emerging Sciences, Lahore Campus

Assignment 2 COAL

Deadline: 15 November 2021 in class

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.

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. Than 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
```