Lab python 4

1. Write a Python class to find a pair of elements (indices of the two numbers) from a given array whose sum equals a specific target number.

Note: There will be one solution for each input and do not use the same element twice.

Input: numbers(input for method not user)= [10,20,10,40,50,60,70], target=50

Output: 2,3

2- Write a Python program to check whether a given string contains a capital letter, a lower case letter, a number and a minimum length (8).

Sample input (user input) : Myageis18yearsold

Output should be:['Valid string.']

3- Write a Python program to multiply two integers without using the * operator in python.

Input for method: 5,6

Output:30

4-. Write a Python program to construct the following pattern, using a nested for loop.

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5. Write a Python program to count the number of even and odd numbers from a series of numbers.

Sample numbers : numbers = (1, 2, 3, 4, 5, 6, 7, 8, 9)

Expected Output :

Number of even numbers : 4

Number of odd numbers : 5

6- Write a Python program to check a string represent an integer or not?

User input (computer vision)

Output:The string is not an integer

7. Write a Python function that accepts a string and calculate the number of upper case letters and lower case letters. Go to the editor

Sample String : 'The quick Brow Fox'

Expected Output :

No. of Upper case characters : 3

No. of Lower case Characters : 12