

## Lab 6: OOP Using Python

1. WAP to create a bank account and perform operations deposit and withdraw using class.
2. Write a Python class named Rectangle constructed by a length and width and a method which will compute the area of a rectangle. -
3. Write a Python class named Circle constructed by a radius and two methods which will compute the area and the perimeter of a circle.
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5. Create a class rectangle with attributes length and width. Provide member functions that calculate the perimeter and area of the rectangle. Provide member functions to get the values from users and display the values of member variables.
6. Write a Python class which has two methods get\_String and print\_String. get\_String accept a string from the user and print\_String print the string in upper case.
7. Write a Python class to get all possible unique subsets from a set of distinct integers.  
Input : [4, 5, 6]  
Output : [], [6], [5], [5, 6], [4], [4, 6], [4, 5], [4, 5, 6]
8. 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.  
  
Input:            numbers=            [10,20,10,40,50,60,70],            target=50  
Output: 3, 4
9. Write a Python class to implement pow(x, n).

10. Write a Python class to reverse a string word by word.  
Input string : 'hello .py'  
Expected Output : '.py hello'
11. Write a Python class which has two methods get\_String and print\_String. get\_String accept a string from the user and print\_String print the string in lower case.
12. WAP to convert integer to roman numerals