1. Write a function to calculate and return area & perimeter of a rectangle based on length and breadth.

2. Write a function sum_all that takes any number of numeric argument and display the sum

3. Write a function that take name of student and course enrolled as input and display: **Hello {std}, Welcome to course {course}.** If course is not passed to function it has to be python in default

4. Write lambda function to calculate square root of number

5. Write a function to check if number is prime or not. Using this function print first 15 prime numbers.

6. Write a function that counts number of character in string and returns result. Example: if arg is: Apple it has to return **{'A': 1, 'p': 2. 'l': 1, 'e': 1}**

7. Write a function to take a string as input and provide output with below condition:

1. First word of letter always have to be capital
2. If preceding letter occurs earlier then the letter has to be capital
3. If preceding letter occurs later then it has to be small
4. if preceding letter is same then no change in case

Example: applE is fruit ==> APple IS FRUiT

8. You have a numbers stored in a list as [1, -3, 0, 2, 0, 7, 10, 8, -1]. Write a function that takes l, r and x as input then find the sum of number from position l to r. If 0 lies in that given range it has to be replaced by value x.

Example: if l = 2, r = 6 and x = 5 then sum of item from position 2 to 6 is 19. Since there are two zeros replacing it by 5 gives: 19 + 5 + 5 i.e. **29** as output