

## Lab-07 Functions in Python

1. Accept one no and display its absolute value.
2. Get 2 no from user and display base<sup>exp</sup>. (2<sup>3</sup>=8)
3. Get a string from user and display length of that string.
4. Get two strings from user and compare whether both are same or not.
5. Get a string from user and display reverse of it.
6. Get two strings from user and merge it into first string.
7. Get a string from user and display it in lower case.
8. Get a string from user and display it in upper case.
9. Create a user define function named sum which accept 2 arguments (of integer type) and return the sum of them.
10. Create a user define function named avg which pass array as argument (of integer type) and return its average value.
11. Create a user define function named evenodd which accept one argument (of integer type) and return if the number is even or odd.
12. Create a user define function named fact which accept one argument (of integer type) and return the factorial of given number.
13. Create a user define function named prime which accept one argument (of integer type) and display that the no is prime or not. (no need to return value)
14. Create a user define function named triangle which accept one argument (of integer type) and display a triangle like. (If you have given 4 as argument)

```
1
1 2
1 2 3
1 2 3 4
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15. Create a user define function named power which accept two arguments (of integer type) (i) base (ii) expon and display the base<sup>expon</sup> value.
16. Create a user define function named Sroot which accept one argument (of integer type) and display the square root of that no.
17. Create a user define function named ASCII which accept one argument (of character type) and display ASCII value of that character.
18. Create a user define function named CHR which accept one argument (of integer type) and display character of that ASCII value.
19. Write a function to count the simple interest.
20. Write a function that count compound interest.
21. Write a function to generate the square of any given number
22. Write a function to count mean for discrete data.
23. Write a function to find out maximum from of n no of values.
24. Write a function to arrange integer values in ascending order in a list
25. Write a program that take input names of 10 students. Arrange them in ascending order.

26. Write a program that take input paragraph of 10 lines. Count total no of word and total no of characters (Excluding blank spaces).

27. Write a function to check whether the entered string is satisfying the password criteria or not.

**Password criteria:**

1. Atleast one uppercase, lowercase and digit should be there
2. Not less than 8 characters and not more than 20 characters
3. Password should not start with any special characters or digits
4. Allowable special character: @,&,\$