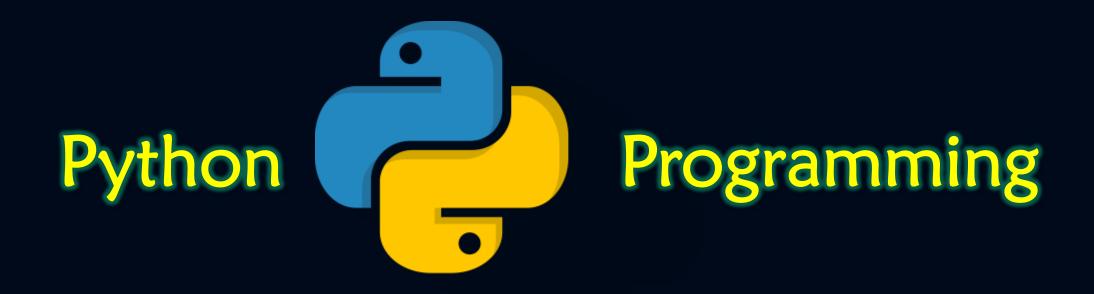


Day 8: Functions





# Tutorials



#### Exercise 1:

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

Sample String: 'The quick Brow Fox'

**Expected Output:** 

No. of Upper case characters: 3

No. of Lower case Characters: 12



### Exercise 2:

Write a Python function that checks whether a passed string is palindrome or not.

Note: A palindrome is a word, phrase, or sequence that reads the same backward as forward, e.g., madam or nurses run.



# Exercise 3:

Write a Python function to check whether a string is a pangram or not.

Note: Pangrams are words or sentences containing every letter of the alphabet at least once.

For example: "The quick brown fox jumps over the lazy dog"



#### Exercise 4:

Write a Python function that takes a number as a parameter and check the number is prime or not.

Note: A prime number (or a prime) is a natural number greater than 1 and that has no positive divisors other than 1 and itself.



#### Exercise 5:

Write a Python function to print the even numbers from a given list.

Sample List: [1, 2, 3, 4, 5, 6, 7, 8, 9]

Expected Result : [2, 4, 6, 8]



#### Exercise 6:

Write a Python function to generate a list of numbers 1-50 and return the odd numbers of the list.



# Exercise 7:

Write a Python function to reverse a string.

Sample String: "1234abcd"

Expected Output: "dcba4321"



# Exercise 8:

Write a Python function to multiply all the numbers in a list.

Sample List: (8, 2, 3, -1, 7)

Expected Output: -336

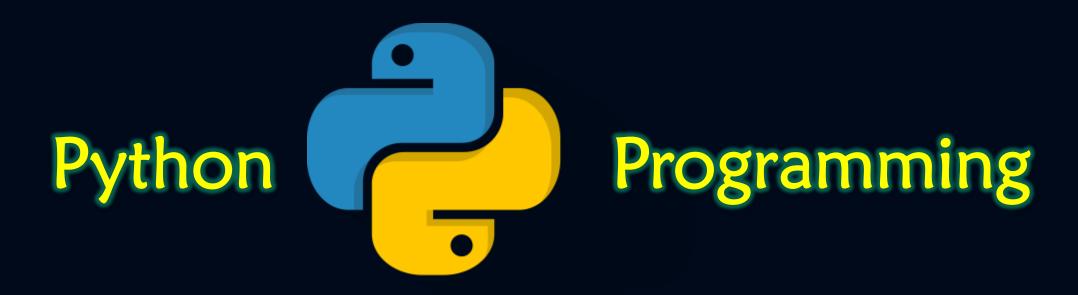


# Exercise 9:

Write a Python function to calculate the factorial of a number (a non-negative integer). The function accepts the number as an argument.



# Next Lecture ...



Day 9: Classes and Objects

