Day 28 of DevOps class

Agenda - Import functions from another existing program, what is a recursive method and how it works, and write a code for greater value for 3 numbers

1. Import functions from another existing program is known as calling functions from other files.

It is a beneficial tool to enhance the code reusability. It allows us to import functions from other files, saving us much time.

To import the functions from a file, we first need to create a Python module. This is simply a Python file, extension that contains the function we want to import we can then use the import keyword to bring those functions into the main script from my\_module import my\_fuction

Example:

from fibb\_add\_numbers import Fibonacci

n = int(input("Enter a max number of terms in the fiboniacci series:"))  
#fibonacci\_series = []

print(fibonacci(n))

1. What is the recursion method?

Python also accepts function recursion, which means a defined function can call itself. Recursion is a common mathematical and programming concept. It means that a function calls itself. This has the benefit of meaning that you loop through data to reach a result.

Recursion made any function which calls itself directly or indirectly

Recursion code:

def factorial(n):  
 if n == 0:  
 return 1  
 else:  
 return n \* factorial(n - 1)  
  
n = int(input("Enter a number: "))  
print(factorial(n))

1. Write a program for greater value for 3 values

def greater\_value(n1,n2,n3):  
 if n1 > n2 and n1 > n3:  
 print("n1 is greater value and given value",n1)  
 if n1 == n2:  
 print("n1 and n2 are equal and given values ")  
 elif n2 > n1 and n2 > n3:  
 print("n2 is greater value and given value",n2)  
 if n2 == n1:  
 print("n2 and n3 are equal and given values are ", n1,n2)  
 elif n3 > n1 and n3 > n2:  
 print("n3 is greater value and given value", n3)  
 if n3 == n1:  
 print("n3 and n1 are equal and given values are", n1,n3)  
 else:  
 print("All values are equal given values are", n1,n2,n3)  
  
  
  
n1 = int(input(f"Enter a first number: "))  
n2 = int(input("Enter a second number: "))  
n3 = int(input("Enter a third number: "))  
  
print(greater\_value(n1,n2,n3))