Day-15 Date: 25-09-25

- lambda function
* It's a small, anonymous function
* defined using the keyword lambda instead of def
* Can take any number of arguments but must contain only one expression
* expression is automatically returned (no need to use return)

lambda argument : expression

__/__/____

S= lambda a,b : a+b

S(6,9)

o/p : 15

C = lambda a : a**3

C(9)

o/p : 729

1. Function as parameter
2. Nested function
3. Recursion function.

1. Function as parameter - You can pass a function as an argument to another function
2. Nested function - A function defined inside another function.
3. Recursion function - A function that calls itself until a base condition is met

#create a function to check given number is prime number or not using with input without return

Code:

```
def prime(num):
    for i in range(2,num,1):
        if(num%2==0):
            print(f"{num} is not a prime number")
            break
    else:
        print(f"{num} is prime number")


prime(8)
```

8 is prime number

#create functions to print prime numbers from given range using with input and without return

Code:

```
r1=int(input("r1="))
r2=int(input("r2="))
def prime_num(r1,r2):
    for i in range(r1,r2+1,1):
        for j in range(2,i,1):
            if(i%j==0):
                break

        else:
            print(i)

prime_num(2,7)
```

2
3
5
7

#create a fun to find largest among three numbers
using with input and with return

Code:

```
def large(x,y,z):
    if(x>y and x>z):
        return f"{x} is largest "
    elif(y>x and y>z):
        return f"{y} is largest"
    else:
        return f"{z} is largest"

large(4,9,1)
```

'9 is largest'