29/09/25

Functions:

- → A function is a block of reusable code that performs

 specific task.
- -> functions make our programs more organized, redable and reduce repitition.

Types of functions:

- 1) Built in functions
- 2) user defined functions.
- i) Built in functions:

Built in functions are the functions that some pre-defined with python. You don't need to import any library or module to use them - they are available by default as soon as you start python.

```
-> Already available in python.
-> typec), print(), input(), lenc)
2) User defined functions:
-> functions created by the user using def keyword.
 Syntax :
     def fun_name (parameters):
         Statements
         return value.
 1) function without input and without than.
2) Function with input and without Yeturn.
3) function without input and with return.
4) Function with input and with return.
Lambda function:
  Anonymous (nameless) functions written in a single
line using the lambda keyword.
                                                       3
1) function without input and without return.
  syntax:
     def fun-namec)
         statements
     call :
     fun_ name ()
```

```
program on simple interest:
def Sit ():
     # Local variables
      p = float Cinput ("enter a principle amount: "))
     t = float (input ("enter a time: "))
       Y = float (input (" enter a Vate; "))
      Si = (px+xx)/100.
      print (" the simple interest is: ", si).
1) function with input and without return.
  Syntax !
      def fun_name (P1, P2 .... Pn):
          Statements
      call:
       fun_ name ( P1, P2 --- Pn ).
3) function without input and with return.
    Syntaz :
     def fun-name ():
         Statements
     call:
     fun-name ().
```

4) Function with input and with return

Syntax:

def fun-rame (p1, p2 --- pn):

Statements

call: (de la company de la co

fun-nomec)