Functions in Python:

Functions are the set of code or instructions which performs specific tasks.

Types:

1. **In-built Functions:** These are the functions which are already defined inside the python

Ex: print(), int(), input(), etc.

2. **User defined functions:** These are the functions which are defined by the users based on their specifications.

We use **def** keyword to define the user defined functions in python.

Ex: def add(a, b): return a+b

3. Lambda Functions: lambda functions are the functions which doesn't have any name written in single line

We use **lambda** keyword to define lambda functions

Ex: lambda x: x+2

Types of User Defined Functions:

1. Functions with no parameter and no return value:

Functions which don't take any parameter or input and return no values.

Ex: def printName():

print("Hello world")

2. Functions with parameter and no return value:

These functions only take parameters but don't return any value.

Ex : def greet(name):

print(f"Good Morning {name}")

3. Functions with no parameter and with return value:

These functions don't take any parameters but return some values.

Ex: def grade():

return "A"

4. Functions with parameter and with return value:

These functions takes parameter also and returns values also

Ex: def add(a, b):

return a+b

Note:

We can pass functions as a parameter

We can assign them into variables. Ex: sum = lambda a,b: a+b