

## Module 6: Python Functions

- ❑ Function is group of related statements that perform a specific task.
- ❑ Functions make the code organized, reusable and manageable.
- ❑ Type of Functions
  - ❑ Built-in functions: functions that are built into Python.
  - ❑ User-Defined functions: functions defined by users.

### return statement:

- ❑ We can return a result from a function using return statement.
- ❑ Functions in python can return multiple values also.

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### Parameter Types:

- ❑ Formal Parameters:
  - ❑ These are the parameters that appear in the function definition.
  - ❑ They are useful for receiving the value from outside function.
- ❑ Actual Parameter:
  - ❑ These are the parameters that appear in the function call.
- ❑ Note: Parameters are also called arguments.

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### Parameter Passing Techniques:

- ❑ Positional Parameters:
  - ❑ In this the parameters passed to a function correspond to their positions. The number and positions of Actual and Formal parameters should match.
- ❑ Keyword Parameters:
  - ❑ In this the parameters passed to a function correspond to their names. The positions of the arguments can be changed.
- ❑ Note: Having positional argument after keyword arguments will result into errors.