Module 4: Python Control Statements

Selection Statements:

Python provides the following options for Selection Statement:

- ❑ **if statement**

  Syntax:

  if test expression:

  statement(s)

- ❑ **if else statement**

  Syntax:

  if test expression:

  statement(s) of if

  else:

  statement(s) of else

- ❑ **if elif else statement**

  Syntax:

  if test expression:

  statement(s) of if

  elif test expression:

  statement(s) of elif

  else:

  statement(s) of else

Iteration Statements:

Python provides the following options for Iteration Statement:

- ❑ **while statement**
  Syntax:
  while test expression
  body of while

- ❑ **for statement**
  Syntax:
  for val in sequence:

    body of for

range():
  - ✓ It is a built-in function in Python for generating sequence of integers.
  - ✓ Variations of range():

range(stop) → start = 0, step=1

range(start, stop) → step=1

range(start, stop, size)
  - ✓ start is always inclusive and stop is always exclusive.
  - ✓ To go forward step size should be positive and to go back step size should be negative.
  - ✓ start, stop and step should be integers else we get TypeError
  - ✓ step cannot be 0 else we get ValueError