

## Module 1 - Introduction to Python Assignment - 2

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### Problem Statement:

Consider yourself to be Sam who is a data scientist. He has been invited as a guest lecturer at a college to take an introductory session on Python.

### Tasks to be performed:

1. Create 1<sup>st</sup> tuple with values -> (10,20,30), 2<sup>nd</sup> tuple with values -> (40,50,60).
  - a. Concatenate the two tuples and store it in "t\_combine"
  - b. Repeat the elements of "t\_combine" 3 times
  - c. Access the 3<sup>rd</sup> element from "t\_combine"
  - d. Access the first three elements from "t\_combine"
  - e. Access the last three elements from "t\_combine"
2. Create a list 'my\_list' with these elements:
  - a. First element is a tuple with values 1,2,3
  - b. Second element is a tuple with values "a","b","c"
  - c. Third element is a tuple with values True,False
3. Append a new tuple – (1,'a',True) to 'my\_list'
  - a. Append a new list – ["sparta",123] to my\_list
4. Create a dictionary 'fruit' where:
  - a. The first key is 'Fruit' and the values are ("Apple","Banana","Mango","Guava")
  - b. The second key is 'Cost' and the values are (85,54,120,70)
  - c. Extract all the keys from 'fruit'
  - d. Extract all the values from 'fruit'
5. Create a set named 'my\_set' with values (1,1,"a","a",True,True) and print the result