

Introduction to Python Assignment

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 1st tuple with values -> (10,20,30), 2nd 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 3rd 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
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