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1
2 # PPL Lab Assignment 3, PG43 Jaynam Modi, G3
3
4 # Write a Python Program to merge two lists and sort it.
5
6 list1 = [int(x) for x in input("> Enter First List : ").split(" ") if x
7 != ""]
8 list2 = [int(y) for y in input("> Enter Second List : ").split(" ") if
9 y != ""]
10
11 merged = list1 + list2
12
13 print("> Merged List : ", merged)
14
15 merged.sort()
16
17 print("> Sorted List : ", merged)
18
19 # PRACTICE PROBLEMS.
20
21 # 1. Python Program to Swap the First and Last Value of a List.
22
23 def swap(lst):
24     lst[0], lst[-1] = lst[-1], lst[0]
25     return lst
26
27 # 2. Python Program to Find the Second Largest Number in a List Using
28 Bubble Sort.
29
30 def find2ndLargest(lst):
31     for i in range(2):
32         for j in range(len(lst)-1):
33             if lst[j] > lst[j+1]:
34                 lst[j], lst[j+1] = lst[j+1], lst[j]
35     return lst[-2]
36
37 # 3. Python Program to create list of Tuples with first element as the
38 number and the Second element as the Square of the Number.
39
40 def createSquareList(n):
41     return [(x, x * x) for x in range(1, n+1)]
42
43 # 4. Python Program to put Even & Odd Elements of a list into two
44 seperate lists.
45
46 def sortEvenOdd(lst):
47     return {"even": [x for x in lst if x // 2 == 0], "odd": [x for x in
48 lst if x // 2 == 1]}
49
50 # 5. Python Program to remove Duplicate Items from a list.
51
52 def removeDuplicates(lst):
53     y = []
54     for x in lst:
55         if x not in y:
56             y.append(x)
57     return y
58
59 # 6. Python Program to calculate average of Numbers is list.
60
61 def calcAverage(lst):
62     avg = 0
63     for x in lst:
64         avg += x
65     return (avg/len(lst))
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u0_a362@localhost:~/github/assignments/PPL$ python ppl_assignment_3.py
> Enter First List : 12 9 45
> Enter Second List : 8 34
> Merged List : [12, 9, 45, 8, 34]
> Sorted List : [8, 9, 12, 34, 45]
u0_a362@localhost:~/github/assignments/PPL$
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