assignmentFEB4

March 26, 2023

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[2]: '''
                   Q1. Create a python program to sort the given list of tuples based on integer
                      ⇔value using a
                    lambda function.
                    [('Sachin Tendulkar', 34357), ('Ricky Ponting', 27483), ('Jack Kallis', 25534), ('Jack Kallis', 25534), ('Inches the same of t
                      → ('Virat Kohli', 24936)]
                    111
                   lst = [('Sachin Tendulkar', 34357), ('Ricky Ponting', 27483), ('Jack Kallis', L
                       →25534), ('Virat Kohli', 24936)]
                   lst.sort(key=lambda x: x[1])
                   print(lst)
                  [('Virat Kohli', 24936), ('Jack Kallis', 25534), ('Ricky Ponting', 27483),
                 ('Sachin Tendulkar', 34357)]
   [8]: '''
                   Q2. Write a Python Program to find the squares of all the numbers in the given \sqcup
                      → list of integers using
                    lambda and map functions.
                    [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
                   lst1=[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
                   sq_lst1 = list(map(lambda x: x**2, lst1))
                   print(sq_lst1)
                 [1, 4, 9, 16, 25, 36, 49, 64, 81, 100]
[11]: '''
                    Q3. Write a python program to convert the given list of integers into a tuple \Box
                       \hookrightarrow of strings. Use map and
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lambda functions
Given String: [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
Expected output: ('1', '2', '3', '4', '5', '6', '7', '8', '9', '10')
'''

Given_String= [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

result=tuple(map(lambda x: str(x), Given_String))

print(result)
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('1', '2', '3', '4', '5', '6', '7', '8', '9', '10')

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[12]:

Q4. Write a python program using reduce function to compute the product of a

⇒list containing numbers
from 1 to 25.

...

from functools import reduce

lst = list(range(1, 26))

product = reduce(lambda x, y: x * y, lst)

print(product)
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15511210043330985984000000

[6, 60, 90, 120]