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Senjuti Maiti
19S-221
Question 1:
Source Code:
nums1 = [1, 2, 3]
nums2 = [4, 5, 6]
print("Original list:")
print(nums1)
print(nums2)
result1 = map(lambda x, y: x - y, nums1, nums2)
result = map(lambda x, y: x + y, nums1, nums2)
print("\nResult: after adding two list")
print(list(result))
print("\nResult: after subtracting two list")
print(list(result1))
Output:
==== RESTART: C:/Users/admin/AppData/Local/Programs/Python/Python39/map1.py ====
Original list:
[1, 2, 3]
[4, 5, 6]
Result: after adding two list
[5, 7, 9]
Result: after subtracting two list
[-3, -3, -3]
>>>
Question 2:
Source Code:
s = 0
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def sum(x):
  global s
  s = s + x
r = list(map(lambda x: sum(x),range(10)))
print(s)
Output:
==== RESTART: C:/Users/admin/AppData/Local/Programs/Python/Python39/map2.py ====
45
>>>
Question 3
Source Code:
array_nums1 = [1, 2, 3, 5, 7, 8, 9, 10]
array_nums2 = [1, 2, 4, 8, 9]
print("Original arrays:")
print(array_nums1)
print(array_nums2)
result = list(filter(lambda x: x in array_nums1, array_nums2))
print ("\nIntersection of the said arrays: ",result)
Output:
==== RESTART: C:/Users/admin/AppData/Local/Programs/Python/Python39/map3.py ====
Original arrays:
[1, 2, 3, 5, 7, 8, 9, 10]
[1, 2, 4, 8, 9]
Intersection of the said arrays: [1, 2, 8, 9]
>>>
Question 4:
Source Code:
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texts = ["php", "mom", "Python", "abcd", "Java", "aaa"]

print("Orginal list of strings:")

print(texts)

result = list(filter(lambda x: (x == "".join(reversed(x))), texts))

print("\nList of palindromes:")

print(result)

Output:
==== RESTART: C:/Users/admin/AppData/Local/Programs/Python/Python39/map4.py ====

Orginal list of strings:
['php', 'mom', 'Python', 'abcd', 'Java', 'aaa']

List of palindromes:
['php', 'mom', 'aaa']

>>>
```