1. Write a Python program to sort a list of tuples using Lambda.

**subject\_marks = [('English', 88), ('Science', 90), ('Maths', 97), ('Social sciences', 82)**

**CODE:**

subject\_marks = [('English', 88), ('Science', 90), ('Maths', 97), ('Social sciences', 82)]

print("Original list of tuples:")

print(subject\_marks)

subject\_marks.sort(key=lambda x: x[1])

print("\nSorting the List of Tuples:")

print(subject\_marks)

1. Write a Python program to square and cube every number in a given list of integers using Lambda.

**CODE:**

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

print("Original list of integers:")

print(nums)

print("\nSquare every number of the said list:")

square\_nums = list(map(lambda x: x \*\* 2, nums))

print(square\_nums)

print("\nCube every number of the said list:")

cube\_nums = list(map(lambda x: x \*\* 3, nums))

print(cube\_nums)

1. Write a Python program to add two given lists using map and lambda

CODE:

nums1 = [1, 2, 3]

nums2 = [4, 5, 6]

print("Original list:")

print(nums1)

print(nums2)

result = map(lambda x, y: x + y, nums1, nums2)

print("\nResult: after adding two lists")

print(list(result))

1. Write an python program to filter all the elements in the list that are divisible by 13.

my\_list = [12, 65, 54, 39, 102, 339, 221, 50, 70]

CODE:

my\_list = [12, 65, 54, 39, 102, 339, 221,50,70]

result = list(filter(lambda x: (x % 13 == 0), my\_list))

print("Numbers divisible by 13 are",result)

1. Write a Python program that multiply each number of given list with a given number using lambda function. Print the result.

CODE:

nums = [2, 4, 6, 9, 11]

n = 2

print("Original list: ", nums)

print("Given number: ", n)

filtered\_numbers = list(map(lambda number: number \* n, nums))

print("Result:")

print(' '.join(map(str, filtered\_numbers)))