Q.1) Write a Python program to create a lambda function that adds 15 to a given number passed in as an argument.

Q.2) Write a Python program to sort a list of tuples using Lambda.
Original list of tuples:
[('English', 88), ('Science', 90), ('Maths', 97), ('Social sciences', 82)]

Sorting the List of Tuples:
[('Social sciences', 82), ('English', 88), ('Science', 90), ('Maths', 97)]

Q.3) Write a Python program to filter a list of integers using Lambda.
Original list of integers:
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

Even numbers from the said list:
[2, 4, 6, 8, 10]
Odd numbers from the said list:
[1, 3, 5, 7, 9]

Q.4) Write a Python program to square and cube every number in a given list of integers using Lambda.
Original list of integers:
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
Square every number of the said list:
[1, 4, 9, 16, 25, 36, 49, 64, 81, 100]
Cube every number of the said list:
[1, 8, 27, 64, 125, 216, 343, 512, 729, 1000]

Q.5) Write a Python program to extract year, month, date from given date, using Lambda.
Sample Output:
2020-01-15
2020
1
15

Q.6) Write a Python program to create Fibonacci series up to n using Lambda.
Fibonacci series upto 2:
[0, 1]
Fibonacci series upto 5:
[0, 1, 1, 2, 3]
Fibonacci series upto 6:
[0, 1, 1, 2, 3, 5]
Fibonacci series upto 9:
[0, 1, 1, 2, 3, 5, 8, 13, 21]

Q.7) Write a Python program to find the intersection of two given arrays using Lambda.
Original arrays:
[1, 2, 3, 5, 7, 8, 9, 10]
[1, 2, 4, 8, 9]
Intersection of the said arrays: [1, 2, 8, 9]

Q.8) Write a Python program to count the even and odd numbers in a given array of integers using Lambda.
Original arrays:
[1, 2, 3, 5, 7, 8, 9, 10]
Number of even numbers in the above array: 3
Number of odd numbers in the above array: 5

Q.9) Write a Python program to rearrange positive and negative numbers in a given array using Lambda.
Original arrays:
[-1, 2, -3, 5, 7, 8, 9, -10]
Rearrange positive and negative numbers of the said array:
[2, 5, 7, 8, 9, -10, -3, -1]

Q.10) Write a Python program to filter a given list to determine if the values in the list have a length of 6 using Lambda.
Sample Input: ["ABHAY", "AMIT","MONDAY","THURSDAY","SAM","VISHWAMBHAR","JOSHI","KULDEEP"]

Sample Output:
MONDAY
THURSDAY
VISHWAMBHAR
KULDEEP

Q.11) Write a Python program to add two given lists using map and lambda.
Original list:
[1, 2, 3]
[4, 5, 6]
Result: after adding two list
[5, 7, 9]

Q.12) Write a Python program to find numbers divisible by nineteen or thirteen from a list of numbers using Lambda.
Orginal list:
[19, 65, 57, 39, 152, 639, 121, 44, 90, 190]

Numbers of the above list divisible by nineteen or thirteen are:
[19, 65, 57, 39, 152, 190]

Q.13) Write a Python program to find palindromes in a given list of strings using Lambda.
Orginal list of strings:
['php', 'w3r', 'Python', 'abcd', 'Java', 'aaa']
List of palindromes:
['php', 'aaa']