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

2. Write a Python program to sort a list of dictionaries using Lambda

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

4. Write a Python program to find if a given string starts with a given character using Lambda

```
In [41]: starts_with = lambda x: True if x.startswith('P') else False
    print(starts_with('Python'))
    starts_with = lambda x: True if x.startswith('P') else False
    print(starts_with('Java'))
    True
    False
```

5. Write a Python program to check whether a given string is number or not using Lambda

```
In [43]: is_digit = lambda x:True if x.isnumeric() else False
    is_digit("123456")
Out[43]: True
```

6. Write a Python program to create Fibonacci series using Lambda

```
In [56]: def fibonacci(n):
    fibo=[0,1]
    list(map(lambda x:fibo.append(sum(fibo[-2:])),range(2,n)))
    return fibo[:n]
    fibonacci(10)
Out[56]: [0, 1, 1, 2, 3, 5, 8, 13, 21, 34]
```

7. Write a Python program to find the intersection of two given arrays using Lambda

8. Write a Python program to rearrange positive and negative numbers in a given array using Lambda

9. Write a Python program to count the even, odd numbers in a given array of integers using Lambda

```
In [26]: def cnt_even_odd(arr):
        even=list(filter(lambda x:x%2==0,arr))
        odd=list(filter(lambda x: x%2 !=0,arr))
        print("count of even numbers is",len(even))
        print("cound of odd numbers is",len(odd))
        cnt_even_odd([1,2,3,4,5,6,7,8,9])
count of even numbers is 4
        cound of odd numbers is 5
```

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

```
In [38]: def addtwolist(11,12):
    for i in range(0,abs(len(11)-len(12))):
        if len(11)>len(12):
            12.append(0)
        else:
            11.append(0)
        print(11,12)

        l3=list(map(lambda x,y:x+y,l1,l2))
        print("Resultant list is",l3)

l1=[27,6]
    l2=[6,17,5,27,6]
    addtwolist(11,12)
[27, 6, 0, 0, 0] [6, 17, 5, 27, 6]
```

Resultant list is [33, 23, 5, 27, 6]

11. Write a Python program to find numbers divisible by nineteen or thirteen from a list of numbers using Lambda

Numbers divided by 19 or 13 are [38, 39, 13, 19]

12. Write a Python program to find palindromes in a given list of strings using Lambda

13. Write a Python program to find all anagrams of a string in a given list of strings using lambda

```
In [87]: lst=['listen','read','heart','dear','dare']
word='read'
(lambda x,w:[i for i in x if (set(w).issubset(set(i)) and set(i).issubset(set(w))
Out[87]: ['read', 'dear', 'dare']
```

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

Desired output is [5, 10, 15, 20, 25, 30]

15. Write a Python program to calculate the sum of the positive and negative numbers of a given list of numbers using lambda function

```
In [58]: def sumofpositive_and_negative(l1):
    positive=sum(filter(lambda x: x>=0,l1))
    negative=sum(filter(lambda x: x<0,l1))
    print("Sum of positive elements is",positive)
    print("Sum of negative element is",negative)
    l1=[-1,2-3,4,-5,6,-7,8,-9]
    sumofpositive_and_negative(l1)

Sum of positive elements is 18
    Sum of negative element is -23</pre>
```

16.Write a Python program to find the list with maximum and minimum length using lambda.

17 Write a Python program to check whether a specified list is sorted or not using lambda

18. Write a Python program to remove all elements from a given list present in another list using lambda.

```
In [91]: def my_fun1(l1,l2):
    result = list(filter(lambda x: x not in list2, list1))
    return result
list1 = [1,2,3,4,56,8,9,10]
list2 = [2,4,6,8]
print("Original lists:")
print("list1:", list1)
print("list2:", list2)

my_fun1(l1,l2)

Original lists:
list1: [1, 2, 3, 4, 56, 8, 9, 10]
list2: [2, 4, 6, 8]
Out[91]: [1, 3, 56, 9, 10]
```

19. Write a Python program to convert string element to integer inside a given tuple using

lambda.

20. Write a Python program to count the occurrences of the items in a given list using lambda

```
In [125]: def occurance(l1):
    dict1={}
    l2 = list(map(lambda x: l1.count(x),l1))
    dict1=dict(zip(l1,l2))
    print("Original list is",l1)
    print()
    print("Occurance of all the elements is:",dict1)

l1=[2,4,3,2,5,6,5,7,8,8]
    occurance(l1)

Original list is [2, 4, 3, 2, 5, 6, 5, 7, 8, 8]

Occurance of all the elements is: {2: 2, 4: 1, 3: 1, 5: 2, 6: 1, 7: 1, 8: 2}
```

21. Write a Python program to add three given lists using Python map and lambda

22. Write a Python program to listify the list of given strings individually using Python map

23. Write a Python program to square the elements of a list using map() function.

24. Write a Python program to add two given lists and find the difference between lists. Use map() function

```
In [144]: def add_of_lists(l1,l2):
               return list(map(lambda x,y:x+y,l1,l2))
          11=[1,2,3,4]
          12 = [2,3,4,5]
          print("original lists are" , 11,12)
          add_of_lists(l1,l2)
          original lists are [1, 2, 3, 4] [2, 3, 4, 5]
Out[144]: [3, 5, 7, 9]
In [143]: def diff_of_lists(l1,l2):
              return list(map(lambda x,y:x-y,l1,l2))
          11=[1,2,3,4]
          12=[2,3,4,5]
          print("original lists are" , 11,12)
          diff_of_lists(l1,l2)
          original lists are [1, 2, 3, 4] [2, 3, 4, 5]
Out[143]: [-1, -1, -1, -1]
```

25. Write a Python program to convert a given list of integers and a tuple of integers in a list of strings.

```
In [149]: def my_function(l1,t1):
    result = list(map(lambda x: str(x),l1))
    result1 = list(map(lambda y: str(y),t1))
    print(result)
    print(result1)
    l1=[1,2,3]
    t1=[4,5,6]
    my_function(l1,t1)

['1', '2', '3']
    ['4', '5', '6']
```

26.Write a Python program to compute the sum of elements of an given array of integers, use map() function

```
In [175]: def sumofelements(arr):
    a= list(map(lambda x:sum(arr),arr))
    print("Addition is",a[0])
    arr=[2,3,4,5,6,7]
    sumofelements(arr)
```

Addition is 27

27. Write a Python program to count the same pair in two given lists. use map() function

```
In [3]: def same_pair(11,12):
    result = list(filter(lambda x: x in 12, 11))
    numberofsame = list(map(lambda x: len(result),result))
    print(result,numberofsame[0])
    l1=[1,2,3,4,5,6,7,8]
    12=[5,6,7,8,9]
    same_pair(11,12)
[5, 6, 7, 8] 4
```

28. Write a Python program to convert a given list of strings into list of lists using map function

29. Write a Python program to convert a given list of tuples to a list of strings using map function

30.Python program to find the diff. between two lists using filter() function

```
In [17]: def diff(l1,l2):
    r = list(filter(lambda x:x not in l2,l1))
    print(r)
    l1=[0,9,8,7,6,5]
    l2=[11,67,9,7,5]
    diff(l1,l2)

[0, 8, 6]
```

31.Python program to remove stop words from string using filter() function

```
In [ ]:
```

32. Python program to find common items in two arrays using lambda and filter() function

33.Python program to filter odd numbers from the list using filter() function

```
In [31]: def odd(l1):
    return list(filter(lambda x:x%2!=0,l1))
    l1=[1,2,3,4,5]
    odd(l1)

Out[31]: [1, 3, 5]
```

34.Python program to filter odd numbers from the list using filter() function

```
In [33]: def even(l1):
    return list(filter(lambda x:x%2==0,l1))
    l1=[1,2,3,4,5]
    even(l1)
Out[33]: [2, 4]
```

35. Python program that filters non-vowels from the list using filter() function

Input string is: This is Python programming and i love doing it.

Output string is: This is Python programming and living to the string is: The second programming and living to the string is: