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

```
Out[21]: {'aishu': 89, 'kiran': 67, 'swati': 43, 'patil': 34, 'pravin': 12, 'sunil': 90}
```

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

```
In [19]:
           1
              def squre_no(s):
           2
                  b=s**2
           3
                  return b
             def cube no(s):
           5
                  b=s**3
           6
                  return b
           7
           8
           9
              s=10
          10 print(squre no(s))
              print(cube_no(s))
          11
          12
          13
```

100 1000

squre list of given list----> [4, 16, 36, 64] cube of given list ----> [8, 64, 216, 512]

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

```
In [5]: 1 a="have a nice day"
2 s=lambda a: a.startswith("h")
3 s(a)

Out[5]: True

In [9]: 1 a="have a nice day!"
2 b=input("enter the character ")
3 check_starts=lambda a,character:a[0]==character
4 print(check_starts(a,b))

enter the character h
True
```

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

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

0 1 1 2 3 5 8 13 21

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

```
1 a=[1,2,3,4,-1,-2,-4,-5]
In [12]:
           2 b=[]
           3
              c=[]
              for i in a:
           4
           5
                  if i>0:
                       b.append(i)
           6
           7
                  else:
                       c.append(i)
           8
           9
          10
             c+b
          [1, 2, 3, 4]
          [-1, -2, -4, -5]
Out[12]: [-1, -2, -4, -5, 1, 2, 3, 4]
In [21]:
              def rearrange_positive_and_negative(a):
           1
           2
                   b=[]
           3
                   c=[]
                   for i in a:
           4
                       if i>0:
           5
                           b.append(i)
           6
           7
                             print(b)
           8
                       elif i<0:
           9
                           c.append(i)
          10
                             print(c)
          11
                  return c+b
          12
          13
              a=[-12,4,-55,5,6,-66,89]
          14
          15
              rearrange_positive_and_negative(a)
          16
          17
          18
Out[21]: [-12, -55, -66, 4, 5, 6, 89]
In [ ]:
```

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

```
In [22]:
             def count odd even(a):
           1
           2
                  even=0
           3
                  odd=0
           4
                  for i in a:
           5
                     if i%2==0:
           6
                         even+=1
           7
                     else :
           8
                         odd+=1
                 print("count of the even ---->" , even)
           9
                 print("count of the odd ----->" ,
          10
          11
             a=[1,23,4,56,8,9,7]
          12
          13 count_odd_even(a)
         count of the even ----> 3
         count of the odd ----> 4
In [23]:
           1 a=[1,23,4,56,8,9,7,88,3,7,10]
           2 d=lambda a:count odd even(a)
           3 d(a)
         count of the even ----> 5
         count of the odd ----> 6
In [21]:
           1 a=[1,23,4,56,8,9,7,88,3,7,10]
           2 even_no=list (filter(lambda x: x%2==0,a))
           3 odd_no=list(filter(lambda x:x%2!=0,a))
           4 print("even no. in the list is", even no)
           5 print("odd no in the list", odd no)
         even no. in the list is [4, 56, 8, 88, 10]
         odd no in the list [1, 23, 9, 7, 3, 7]
```

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

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

nambers asing Earnbac

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

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

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 [45]: 1 a=[1,2,34,5,-4,-3,-2,-1]
2 total_negative_nums = list(filter(lambda a:a<0,a))
3 total_positive_nums = list(filter(lambda a:a>0,a))
4 print("Sum of the positive numbers: ",sum(total_negative_nums))
5 print("Sum of the negative numbers: ",sum(total_positive_nums))
Sum of the positive numbers: -10
Sum of the negative numbers: 42
```

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

```
In [61]:
           1 | a=[[1,23],[4,56,8,9,7],[88],[3,7,10,38,26,39]]
           2 | b=[]
           3 for i in a:
                  b.append(len(i))
           5 print(max(b))
           6
           7
         6
Out[61]: [2, 5, 1, 6]
In [13]:
           1 | lst = [[0], [1, 3], [5, 7], [9, 11], [13, 15, 17]]
           2 max_length = max(len(x) for x in lst)
           3 \max list = \max(1st, key = lambda x: len(x))
           4 print(max length, max list)
           5 min_length = min(len(x) for x in lst)
           6 min list = min(lst, key = lambda x: len(x))
           7 print(min length, min list)
         3 [13, 15, 17]
         1 [0]
```

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.

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

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

```
In [12]:
           1
              def find occurances(a):
           2
                  b={}
                  for i,world in enumerate(a):
           3
                      c=a.count(world)
           4
           5
                      b.update({world:c})
           6
                  print(b)
           7
           8 a="kiran rajendra sonawane"
              find_occurances(a)
         {'k': 1, 'i': 1, 'r': 3, 'a': 5, 'n': 4, ' ': 2, 'j': 1, 'e': 2, 'd': 1, 's':
         1, 'o': 1, 'w': 1}
```

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

```
In [5]: 1 a=[1,2,3,4]
2 c=list(map(lambda a:a**2,a))
3 c
Out[5]: [1, 4, 9, 16]
```

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

```
add give two list -----> [6, 8, 10, 12, 18] difference between two list----> [-4, -4, -4, -4, 2]
```

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

```
In [29]: 1 a=[1,223,43,5,67,6,7]
2 b=(12,3,54,656,5768)
3 c=lambda a:[str(i) for i in a if type(i)==int]
4 print(c(a))
5 print((c(b)))

['1', '223', '43', '5', '67', '6', '7']
['12', '3', '54', '656', '5768']
```

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

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

```
In [34]: 1 lst1 = [ 10,20,40,60,70,90,90]
2 lst2 = [40,55,40,70,50,20,90]
3 pair = list(map(lambda x,y : y==x ,lst1,lst2))
4 print("Same pair in lists" , pair)
5 print(pair.count(True))
```

Same pair in lists [False, False, True, False, False, False, True] 2

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

```
In [70]: 1 s=[("k","i","r","a","n"), ("s","o","n","a","w","a","n","e")]
2 a=list(map(lambda s:"".join(s),s))
3 a
```

Out[70]: ['kiran', 'sonawane']

function

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

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

Out[94]: 'Data science is the domain study that deals with vast volumes modern tools tec hniques to find unseen patterns, derive meaningful information, make business d ecisions'

```
In [35]: 1 string = "Try to stop the excuses if you want to become successful"
2 str1 = string.split()
3 # print(str1)
4 lst = list(filter(lambda x: x.lower() != "stop" ,str1))
5 print(" ".join(lst))
```

Try to the excuses if you want to become successful

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

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

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