In [3]: 11[1]="hello" 11 [12, 'hello', 56.0, True] In [4]: 12**=**list() 12 Out[4]: [] In [5]: data="Good evening" 13=list(data) 13 ['G', 'o', 'o', 'd', ' ', 'e', 'v', 'e', 'n', 'i', 'n', 'g'] In [6]: 14=list([1,2,3]) len(14) 3 Out[6]: In [14]: 15=[34,54,"j",True,[3,5,6],[5,7,9]] len(15) Out[14]: 6 In [9]: 15[2] 'j' Out[9]: In [10]: 15[4][1] Out[10]: 5 In [17]: # sum of all elements in list 16=[1,5,9] sum=0 #logic 1 for i in 16: sum+=i print(sum) #logic 2 for i in range(0,len(16)): sum+=16[i]print(sum) 15 15 ln=[range(1,11)] print(ln) [range(1, 11)] In [14]: ln=list() In [15]: 1n Out[15]: [] In [17]: ln.clear() **for** i **in** range(1,11): ln.append(i) print(ln) [1, 2, 3, 4, 5, 6, 7, 8, 9, 10] In [13]: # Show sum of nested list element from given list sum=0 for element in 15: if (isinstance(element, list)): print("list is : ",element) for i in element: sum**+=**i print("Sum of list element : ", sum) sum=0 else : pass list is : [3, 5, 6] Sum of list element : 14 list is : [5, 7, 9] Sum of list element : 21 In [18]: 15 [34, 54, 'j', True, [3, 5, 6], [5, 7, 9]] In [19]: 15[1:3] [54, 'j'] In [21]: 15[-4:-1] Out[21]: ['j', True, [3, 5, 6]] In [22]: 15[-5:-3] [54, 'j'] Out[22]: In [23]: 15[::-1] [[5, 7, 9], [3, 5, 6], True, 'j', 54, 34] In [24]: 54 **in** 15 True Out[24]: In [25]: 15.count(6) Out[25]: In [26]: 15[len(15)-1].count(8) Out[26]: 0 In [27]: **del** (15[2]) In [28]: 15 [34, 54, True, [3, 5, 6], [5, 7, 9]] In [31]: 15.append(54) In [32]: [34, 54, True, [3, 5, 6], [5, 7, 9], 45, 54] In [ ]: 54 in 15 and 15.remove(54) 15 In [15]: print(15) #15.pop() 15.pop(3) print(15) [34, 54, 'j', True, [3, 5, 6]] [34, 54, 'j', [3, 5, 6]] In [12]: 16=["trupti",True,] ['trupti', True] Out[12]: In [5]: 18=[3,4,5,6,7,8,8,7,8,9] print("Max = ", max(18))print("Min = ", min(18)) print("Sum = ", sum(18)) Max = 9Min = 3Sum = 65In [6]: 18.sort() 18 [3, 4, 5, 6, 7, 7, 8, 8, 8, 9]In [7]: 18.sort(reverse=True) 18 [9, 8, 8, 8, 7, 7, 6, 5, 4, 3] In [9]: 19=sorted(18) print("19 : ",19) print("18 : ",18) 19: [3, 4, 5, 6, 7, 7, 8, 8, 8, 9] 18: [9, 8, 8, 8, 7, 7, 6, 5, 4, 3] In [10]: 110=["Pune", "Nagpur", "Jaypur", "Chennai"] 110 ['Pune', 'Nagpur', 'Jaypur', 'Chennai'] In [11]: def sortNyLength(s): return len(s) 110.sort(key=sortNyLength, reverse=True) 110 ['Chennai', 'Nagpur', 'Jaypur', 'Pune'] Out[11]: In [13]: 111=18+110 111 [9, 8, 8, 8, 7, 7, 6, 5, 4, 3, 'Chennai', 'Nagpur', 'Jaypur', 'Pune'] In [15]: 18\*2 [9, 8, 8, 8, 7, 7, 6, 5, 4, 3, 9, 8, 8, 8, 7, 7, 6, 5, 4, 3] Out[15]: In [19]: 111=[4,5,6] 112=[1,2,3] print(id(l11)) print(id(l12)) #111 is 112 #111==112 1737235015744 1737234840000 True In [36]: # occurences of the given char from list 110=["Pune", "Nagpur", "Chennai", "Pune", "Nagpur"] l11=input("Enter the Character : ") count=0 for i in range(len(l10)): if(l10[i]==l11): count=count+1 print("occurences : ",l11,"occured",count) Enter the Character : Pune occurences: Pune occured 2 In [6]: string1=["Pune", "Nagpur", "Jaypur", "Chennai", "Pune", "Nagpur"] string2="Pune" count1=string1.count(string2) print(count1) #count2=string1.count(string2) #print(count2) 2 In [15]: 16=[11, 22, 33, 44] 15.append(16) 15 [34, 54, 'j', True, [3, 5, 6], [5, 7, 9], [11, 22, 33, 44]] Out[15]: In [4]: clist=["Pune", "Nagpur", "Jaypur", "Chennai", "Pune", "Nagpur"] countingDoneList=list() for city in clist: if(city in countingDoneList): continue else: print(city, " appears ", clist.count(city), " times ") countingDoneList.append(city) Pune appears 2 times Nagpur appears 2 times Jaypur appears 1 times Chennai appears 1 times In [16]: 16=[-4,34,False] 15.extend(16) [34, 54, 'j', True, [3, 5, 6], [5, 7, 9], [11, 22, 33, 44], -4, 34, False] In [41]: # show sum of all int values in list 11=[45, 34, 5, 65] num=0 for n in l1: num+=i print("Sum of all values : ", num) Sum of all values : 8 In [52]: # WAP to remove to find duplicate elements in list list1=[10,20,30,10,50,20,10,60,80,50,40,10] print("Element list : ",list1) newlist=[element for n,element in enumerate(list1) if element not in list1[:n]] print("After removing the Duplicate element : ", newlist) Element list: [10, 20, 30, 10, 50, 20, 10, 60, 80, 50, 40, 10] After removing the Duplicate element : [10, 20, 30, 50, 60, 80, 40] In [55]: # WAP to sort the given list numbers = [1, 3, 4, 2, 5, 3, 5, 8, 9, 0]print("Given list : ", numbers) numbers.sort() print("Sorting the list : ", numbers) Given list: [1, 3, 4, 2, 5, 3, 5, 8, 9, 0] Sorting the list : [0, 1, 2, 3, 3, 4, 5, 5, 8, 9] In [69]: # Write a python program to get the largest number from a list list1= [10, 50, 60, 120, 20, 15, 564, 40, 758] print("Given list : ",list1) prin t("The Largest Element in this List is : ", max(list1)) Given list: [10, 50, 60, 120, 20, 15, 564, 40, 758] The Largest Element in this List is : 758 In [91]: # Write a python program to remove duplicates from a list list1 = [10,25,30,25,14,56,60,40,89,50,40,10,30,60] print("Duplicate list : ",list1) duplist = set() newlist = []for x in list1: if x not in duplist: newlist.append(x)duplist.add(x)print("After remove the duplicates : ", duplist) Duplicate list: [10, 25, 30, 25, 14, 56, 60, 40, 89, 50, 40, 10, 30, 60] After remove the duplicates :  $\{89, 40, 10, 14, 50, 56, 25, 60, 30\}$ # write a python program to find the list of words that are longer than given words def long(words,e): word=[] **for** i in words: if len(i)>len(e): word.append(i) return word list1=['have', 'a', 'nice', 'day'] print(list1) n=input("Enter the Word :") print(long(list1,n)) ['have', 'a', 'nice', 'day'] Enter the Word :a ['have', 'nice', 'day'] In [97]: # Write a python function that takes two lists and returns True if they have at least one common member list1 = [1, 2, 3, 4, 55]list2 = [2, 3, 90, 22]out = any(check in list1 for check in list2) if out: print("True") else : print("False") True In [3]: # Write a python program to print a specified list after removing the 0th, 4th and 5th elements. # Go to the editor # Sample list:['Red', 'Green', 'White', 'Black', 'Pink', 'Yellow'] # Expected Output:['Green','White','Black'] color = ['Red', 'Green', 'White', 'Black', 'Pink', 'Yellow'] color[1:4] ['Green', 'White', 'Black'] Out[3]: In [95]: # Write a python program to print the numbers of a specified list after removing even numbers from it list1 = [7,8, 120, 25, 44, 20, 27, 54, 67, 87, 56] print("List : ",list1) list1 = [x for x in list1 if x%2!=0] print("After removing even numbers : ",list1) List: [7, 8, 120, 25, 44, 20, 27, 54, 67, 87, 56] After removing even numbers : [7, 25, 27, 67, 87] In [11]: # WAP to create a list such that new list contains alternate even and odd from given list l1=[1,2,6,8,7,5,4,33,22,90,67] epol=[] opol=[] j**=**0 for i in range (0,len(l1)+1,2): epol.append(l1[i]) for i in range (1, len(l1), 2): opol.append(l1[i]) epol.clear() opol.clear() for j in l1: epol.append(j) else: opol.append(j) print('epol :',epol) print('opol :',opol) epol: [1, 2, 6, 8, 7, 5, 4, 33, 22, 90, 67] opol : [67] In [ ]: In [ ]:

l1=[12, "Hello", 56.00, True]

[12, 'Hello', 56.0, True]