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In [1]: # write a program to get a user input in the form of a list data type.Return a list by remov
         ing all the duplicates
         lst = []
         n = int(input("Enter number of elements : "))
         for i in range(0, n):
             ele = int(input())
             lst.append(ele)
         print(lst)
         temp = []
         for x in lst:
             if x not in temp:
                 temp.append(x)
         lst = temp
         print(f'Updated List after removing duplicates = {temp}')
         Enter number of elements : 6
         2
         [5, 2, 5, 6, 2, 8]
         Updated List after removing duplicates = [5, 2, 6, 8]
In [2]: # write a program to create a user defined tuple with 'int' data type and perform the follow
         ing operations
         # find the length of tuples
         # find the sum of all the elements of a tuple
         # find the largest and smallest elements of a tuple
         lst = []
         n = int(input("Enter number of elements : "))
         for i in range(0, n):
             ele = int(input())
             lst.append(ele)
         print(lst)
         lst = tuple(lst)
         print(lst)
         print(len(lst))
         print(sum(lst))
         print(min(lst))
         print(max(lst))
         Enter number of elements : 6
         3
         5
         [3, 5, 2, 6, 4, 1]
         (3, 5, 2, 6, 4, 1)
         21
         1
In [8]: # given a number and ith bit, change th ith of that number to 1
         n=13
         k=1
         if ((1 << k) | n):
             print("Kth bit set number = ", setKthBit(n, k))
         Kth bit set number = 15
In [9]: # given a number ,print 1 if the number is odd otherwise print 0
         a = [0, 1]
         print ("Enter the number")
         no = input()
         print (a[int(no) % 2])
         Enter the number
In [10]: # given two lists of integer A and B. Write a program to merge them into a single sorted lis
         t that contains every item from list A and B in ascending order
         A=[4,5,3,7,8]
         B=[6,9,2,10,1]
         A.extend(B)
         A.sort()
         print((A))
         [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
In [28]: # create a user defined dictionary to store names and marks of 5 students .Sort the dictiona
         ry according to marks and return this sorted dictionary to the user
         n=int(input("Number of Elements:"))
         for i in range(n):
             k=input("Enter name:")
             v=input("Enter marks:")
             a.update({k:v})
         print(sorted(a.items(), key = lambda kv:(kv[1], kv[0])))
         Number of Elements:5
         Enter name:ram
         Enter marks:20
         Enter name:shyam
         Enter marks:60
         Enter name:tina
         Enter marks:44
         Enter name:rajat
         Enter marks:52
         Enter name:naman
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Enter marks:36

{'ram': '20', 'shyam': '60', 'tina': '44', 'rajat': '52', 'naman': '36'}

[('ram' '20') ('naman' '36') ('tina' '44') ('raiat' '52') ('shyam' '60')]