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In [2]: #1. Given a list of numbers, write a python program that returns a new list wh
        #duplicate elements removed. And is sorted in an increasing order.
        l=[2,7,4,5,6,1,1,9,9,8,7,7,3]
        print("the list : ",1)
        new list=[]
        for x in 1:
            if x not in new list:
                new list.append(x)
        print("new list after removing duplicates :",new_list)
        new list.sort()
        print(new_list)
        the list: [2, 7, 4, 5, 6, 1, 1, 9, 9, 8, 7, 7, 3]
        new list after removing duplicates : [2, 7, 4, 5, 6, 1, 9, 8, 3]
        [1, 2, 3, 4, 5, 6, 7, 8, 9]
In [5]: #2. Write a Python program where you will iterate over both keys and values i
        x={1:"a",2:"b",3:"c",4:"d"}
        for y,z in x.items():
            print(y,z)
        1 a
        2 b
        3 c
        4 d
In [6]: #3. Write a Python program that takes a dictionary of student names and return
        #Ex: Input: {"Student 1": "Tarun", "Student 2": "Manoj", "Student 3": "Gephi"}
        #Output:["Gephi","Manoj"," Tarun"]
        a=int(input("Enter the number of students: "))
        d={};1=[]
        for x in range(0,a):
            k="Student"+str(x+1)
            v=input("Enter the student name : ")
            d.update({k:v})
        print("Input: ",d,"\n")
        for p in d.values():
            1.append(p)
        1.sort()
        print(1)
        Enter the number of students: 3
        Enter the student name : Tarun
        Enter the student name : Manoj
        Enter the student name : Gephi
        Input: {'Student1': 'Tarun', 'Student2': 'Manoj', 'Student3': 'Gephi'}
        ['Gephi', 'Manoj', 'Tarun']
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In [2]: #5. Write a Python program where you will return a dictionary where the keys w
 #the values will be the occurrence of the character in the string, and it show
 #Ex: Input: "my name is ame"
 #Output: {"m":3," y":1," n":1," a":2," e":2," i":1," s":1}

d={};
 a=input("Enter a string: ")
 for x in a:
 if not(x==" "):
 d.update({x:a.count(x)})
 else:
 continue
 print(d)

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Enter a string: sai ram teja
{'s': 1, 'a': 3, 'i': 1, 'r': 1, 'm': 1, 't': 1, 'e': 1, 'j': 1}
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In [3]: #6. Given a dictionary containing the names and ages of a group of people, retu
        #Ex: Input:{"Tmma": 41, "Ackes": 45, "myna": 15, "Benthon": 29}
        #Output: "Ackes"
        d={};e=0;f=''
        a=int(input("Enter the length of the dictionary: "))
        for x in range(0,a):
            k=input("Enter name: ")
            v=int(input("Enter age: "))
            d.update({k:v})
        print("\nInput: ",d)
        for m,n in d.items():
            if e<n:</pre>
                 e=n
                f=m
        print(f)
        Enter the length of the dictionary: 4
        Enter name: Tmma
        Enter age: 41
        Enter name: Ackes
        Enter age: 45
        Enter name: myna
        Enter age: 15
        Enter name: Benthon
        Enter age: 29
        Input: {'Tmma': 41, 'Ackes': 45, 'myna': 15, 'Benthon': 29}
        Ackes
In [7]: #8. Create a program that returns a list of items that you can afford in the s
        #Create a dictionary with items as key and price as values.
        #Ex: Input: {"water bottles":20,"Chips":10,"Iphone":49000,"towel":90,"pens":58
        #Your wallet balance: - 50
        #Output: ["water bottles", "chips"]
        store={"water bottles":20, "Chips":10, "Iphone":49000, "towel":90, "pens":58, "cake
        wallet=int(input("Enter the money you have in wallet: "))
        s=0; l=[]
        for x,y in store.items():
            s+=y
            if s<wallet:</pre>
                1.append(x)
        print("\nYour wallet balance: ",wallet)
        print(1)
        Enter the money you have in wallet: 50
        Your wallet balance: 50
        ['water bottles', 'Chips']
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In [8]: #9. Write a Python program to create a union of sets.
        set1=set();set2=set()
        a=int(input("Enter the length of set1 "))
        for x in range(0,a):
            p=input("Enter a value: ")
            set1.add(p)
        b=int(input("Enter the length of set2 "))
        for y in range(0,b):
            q=input("Enter a value: ")
            set2.add(q)
        print(set1.union(set2))
        Enter the length of set1 3
        Enter a value: a
        Enter a value: b
        Enter a value: c
        Enter the length of set2 4
        Enter a value: 1
        Enter a value: 1.2
        Enter a value: 3
        Enter a value: d
        {'b', 'a', 'd', '1', '1.2', 'c', '3'}
In [1]: #10.Write a Python program to check if a given value is present in a set or no
        set1=set()
        a=int(input("Enter the length of the set: "))
        for x in range(0,a):
            p=input("Enter a value: ")
            set1.update(p)
        b=input("\nEnter the value : ")
        if b in set1:
            print(b,"is presnt.")
        else:
            print(b,"not found.")
        Enter the length of the set: 4
        Enter a value: a
        Enter a value: b
        Enter a value: 2
        Enter a value: c
        Enter the value : d
        d not found.
In [ ]:
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