```
In [10]: car1="BMW"
           car2="Volvo"
          car3="Audi"
cars=["BMW","Volvo","Audi"]
           print(cars)
           for x in cars:
           print(x)
           for i in range (1,3):
           print(cars[i])
           ['BMW', 'Volvo', 'Audi']
           Volvo
           Audi
           Volvo
           Audi
In [11]: a=[1,2,3,4,5]
           d=[2,2.3,4.5,6.7]
           print(max(a))
           print(min(a))
           print(sorted(a))
           len(a)
           a.pop()
           a.remove(3)
          del a[2]
           5
           1
           [1, 2, 3, 4, 5]
In [12]: orderitem=[1, "Sam", "Computer", 75.50, True]
           print(orderitem)
           orderitem[2]="Laptop"
           print(orderitem)
           [1, 'Sam', 'Computer', 75.5, True]
[1, 'Sam', 'Laptop', 75.5, True]
In [15]: orderitem=[1, "Sam", "Computer", 75.50, True]
    orderitem.append('abc')
           print(orderitem)
           [1, 'Sam', 'Computer', 75.5, True, 'abc']
In [16]: orderitem=[1, "Sam", "Computer", 75.50, True]
    orderitem.extend(['MIT', 2020])
           print(orderitem)
           [1, 'Sam', 'Computer', 75.5, True, 'MIT', 2020]
In [17]: orderitem=[1, "Sam", "Computer", 75.50, True]
           del orderitem[1]
           print(orderitem)
           [1, 'Computer', 75.5, True]
In [18]: orderitem=[1, "Sam", "Computer", 75.50, True]
           del orderitem[2:3]
           print(orderitem)
           [1, 'Sam', 75.5, True]
In [20]: orderitem=[1, "Sam", "Computer", 75.50, True]
    orderitem.remove('Computer')
           print(orderitem)
           [1, 'Sam', 75.5, True]
In [21]: orderitem=[1,"Sam","Computer",75.50,True]
           orderitem.pop(1)
           print(orderitem)
           [1, 'Computer', 75.5, True]
In [22]: orderitem=[1, "Sam", "Computer", 75.50, True]
           orderitem.clear()
           print(orderitem)
           []
```

```
In [24]: my_list = [1, 2, 3, 10, 30, 10]
         print(len(my_list))
         print(my_list.index(10))
         print(my_list.count(10))
         print(sorted(my_list))
         my_list.sort(reverse=True)
         print(my_list)
         6
         3
         [1, 2, 3, 10, 10, 30]
[30, 10, 10, 3, 2, 1]
In [26]: n = int(input("enter the size of array :"))
         arr=[]
         sum=0
         for i in range(n):
           x= int(input("enter element: "))
           arr.append(x)
           sum=sum+arr[i]
         print("Entered array is :", arr," and Average of elements is ",(sum/n))
         enter the size of array :2
         enter element: 1
         enter element: 3
         Entered array is: [1, 3] and Average of elements is 2.0
In [37]: phone1="IPHONE"
         phone2="SAMSUNG"
         phone3="ONEPLUS"
         phones=["IPHONE", "SAMSUNG", "ONEPLUS"]
         print(phones)
         for x in phones:
          print(x)
         for i in range (1,3):
          print(phones[i])
         ['IPHONE', 'SAMSUNG', 'ONEPLUS']
         SAMSUNG
         ONEPLUS
         SAMSUNG
         ONEPLUS
In [32]: phones_list=["IPHONE", "SAMSUNG", "ONEPLUS"]
         phones_list.append('REDMI')
         print(phones_list)
         ['IPHONE', 'SAMSUNG', 'ONEPLUS', 'REDMI']
In [35]: phones_list=["IPHONE", "SAMSUNG", "ONEPLUS"]
         phones_list.extend(['NOTHING', 2022])
         print(phones_list)
         ['IPHONE', 'SAMSUNG', 'ONEPLUS', 'NOTHING', 2022]
In [34]: phones_list=["IPHONE", "SAMSUNG", "ONEPLUS"]
         phones_list.clear()
         print(phones_list)
         []
```

Devanshy Swana 1032210755 MIT WORLD PEACE UNIVERSITY | PUNE PC-12 Batch - CI Python Brogramming hab Assignment - 4 Problem statement: Different operations on list Data Structure Aim: Write a python program to create, append and remove, etc. operation on list. Objectives: To learn and implement list Data Structure Write about different data structure in python The basic pathon data structures in python include list set tuples and dictionary. Each of the data structures is unique in its own way. Data Structures are "containers" that organize and data according to type. The data structures differ based on mutability & order. Write down about different operations performed on List hist in python: A few of the basic list operations used in python programming extend(), insert(), append(), remove(), pop(), slice, reversel, min, marc(), etc Platform: Windows - Python Editor CTupytor)

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Ans I)	Unlike Strings, lists are mutable. This means we can charge an item in a 18t by acrossing it directly as part of the assignment statement. For eg: Ust = [1,2,3] 1ist = Clear()
	It will return an empty list.
Ans 2)	append() adds a single element to the end of the list while extend() can add multiple individuals elements to the end of the list.
Ans 3)	Python list don't store values themselves. They store printers to values stored else-where in memory. This allows lists to be mutable.
Ans 4)	The remove() function removes the first matching value from the list. The paper function is used to return the removed element from the list.
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