In [1]:

```
#Name: Sumit Kamble
#Roll No: 47

#List
#1. Create following list and print them at once.
List1=[20,30,10,40,50,50]
List2=['Apple','banana','orange','mango','apple']
List3=[10.5,20,'cherry','papaya',30,30.5]
print(List1,List2,List3)
```

```
[20, 30, 10, 40, 50, 50] ['Apple', 'banana', 'orange', 'mango', 'apple'] [1
0.5, 20, 'cherry', 'papaya', 30, 30.5]
```

In [2]:

```
#2. Print first two elements of List3.
print(List3[0],List3[1])
```

```
10.5 20
```

In [3]:

```
#3. Print List1 two times.
print(2*List1)
```

```
[20, 30, 10, 40, 50, 50, 20, 30, 10, 40, 50, 50]
```

In [4]:

```
#4. Find and print whether element 60 is present in List2 or not.
if 60 in List2:
    print("Yes")
else:
    print("No")
```

```
No
```

In [5]:

```
#5. Find the length of List2.
print("The length of List2 is:",len(List2))
```

```
The length of List2 is: 5
```

In [6]:

```
#6. Sort the elements of List1.
List1.sort()
print(List1)
```

```
[10, 20, 30, 40, 50, 50]
```

In [7]:

```
#7. Write a python  program to sum all the items in a List.
s=sum(List1)
print(s)
```

```
200
```

In [8]:

```
#8. Delete the last element of List2.
List2.remove("apple")
print(List2)
```

```
['Apple', 'banana', 'orange', 'mango']
```

In [9]:

```
#9. Print List3 in reverse order.
List3.reverse()
print(List3)
```

```
[30.5, 30, 'papaya', 'cherry', 20, 10.5]
```

In [10]:

```
#10. Find many times element 50 is present in List1,
print(List1.count(50))
```

```
2
```

In [11]:

```
#11. Create a copy of List3.
List4=List3.copy()
print(List4)
```

```
[30.5, 30, 'papaya', 'cherry', 20, 10.5]
```

In [13]:

```
#12. Modify second and third element of List1 to 70 and 80 respectively.
print(List1)
List1[2]=70
List1[3]=80
print(List1)
```

```
[10, 20, 70, 40, 50, 50]
[10, 20, 70, 80, 50, 50]
```

In [16]:

```
#13. Find whether element 20 is present in the List, and if it present replace
if 20 in List1:
    print("YES")
    print(List1)
    List1[0]=100
    print(List1)
else:
    print("NO")
    #print(List1)
    #List1[0]=100
    #print(List1)
```

```
YES
[10, 20, 70, 80, 50, 50]
[100, 20, 70, 80, 50, 50]
```

In [15]:

```
#14. Combine List1 and List2.
List1+List2
```

Out[15]:

```
[10, 20, 70, 80, 50, 50, 'Apple', 'banana', 'orange', 'mango']
```

In [17]:

```
#15.Remove all elements from List2.
List2.clear()
print(List2)
```

```
[]
```

In [18]:

```
#16. Delete List3.
del List3[0:6]
print(List3)
```

```
[]
```

In [19]:

```
"""
18. Create following Lists
    a. Data1 34,45,67,23,65
    b. Data2 'abe', 'xyz', 'pqr', 'del'
    c. Create a List by combining Data1 and Data2.
    d. Find first element of a nested List.
    e. Find tge element present at second index in first element of a nested List.
"""
Data1=[34,45,67,23,65]
Data2=['abe', 'xyz', 'pqr', 'del']
print(Data1)
print(Data2)
nested=Data1+Data2
print(nested)
print(nested[0])
print(nested[2])
```

```
[34, 45, 67, 23, 65]
['abe', 'xyz', 'pqr', 'del']
[34, 45, 67, 23, 65, 'abe', 'xyz', 'pqr', 'del']
34
67
```

In [ ]:

```
```