*#program*tuple1=(10,20,30,40)  
a,b,c,d = tuple1  
print("value of a ",a)  
print("value of b ",b)  
print("value of c ",c)  
print("value of d ",d)  
````````````````````````````````````````````````````````````````  
*#program*tuple1 = (11, 22)  
tuple2 = (99, 88)  
tuple3=tuple2  
tuple2=tuple1  
tuple1=tuple3  
print("tuple1 ",tuple1)  
print("tuple2 ",tuple2)

````````````````````````````````````````````````````````````````  
  
*#program-Copy specific elements from one tuple to a new tuple*tuple1 = (11, 22, 33, 44, 55, 66)  
print(tuple1[3:-1])

````````````````````````````````````````````````````````````````  
*#program-Modify the tuple*tuple1 = (11, [22, 33], 44, 55)  
print("Given list ",tuple1)  
tuple1[1][0]=222  
print("After modification ",tuple1)

````````````````````````````````````````````````````````````````  
  
*#Program-Counts the number of occurrences of item 50 from a tuple*tuple1=(1,4,3,2,4,50,6,4,7,9)  
print("No.of appearances of 4: ",tuple1.count(4))

````````````````````````````````````````````````````````````````  
  
*#Program-Check if all items in the tuple are the same*tuple1=(34,34,34,34)  
list1=list(tuple1)  
print(len(list1))

````````````````````````````````````````````````````````````````

*#program- List Comprehension*fruits = ["apple", "banana", "cherry", "kiwi", "mango"]  
newlist = []  
for x in fruits:  
 if "a" in x:  
 newlist.append(x)  
print(newlist)

````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````

*#program*tuple1=(10,20,30,40)  
a,b,c,d = tuple1  
print("value of a ",a)  
print("value of b ",b)  
print("value of c ",c)  
print("value of d ",d)

```````````````````````````````````````````````````````````````  
*#program*tuple1 = (11, 22)  
tuple2 = (99, 88)  
tuple3=tuple2  
tuple2=tuple1  
tuple1=tuple3  
print("tuple1 ",tuple1)  
print("tuple2 ",tuple2)

````````````````````````````````````````````````````````````````  
  
*#program-*

tuple1 = (11, 22, 33, 44, 55, 66)  
print(tuple1[3:-1])

````````````````````````````````````````````````````````````````  
*#program-Modify the tuple*tuple1 = (11, [22, 33], 44, 55)  
print("Given list ",tuple1)  
tuple1[1][0]=222  
print("After modification ",tuple1)

````````````````````````````````````````````````````````````````  
  
*#Program-Counts the number of occurrences of item 50 from a tuple*tuple1=(1,4,3,2,4,50,6,4,7,9)  
print("No.of appearances of 4: ",tuple1.count(4))

*#Program-Check if all items in the tuple are the same*tuple1=(34,34,34,34)  
list1=list(tuple1)  
print(len(list1))  
  
*#program- List Comprehension*fruits = ["apple", "banana", "cherry", "kiwi", "mango"]  
newlist = []  
for x in fruits:  
 if "a" in x:  
 newlist.append(x)  
print(newlist)

````````````````````````````````````````````````````````````````  
  
*#program-list Comprehension*fruits = ["apple", "banana", "cherry", "kiwi", "mango"]  
newlist= [x for x in fruits if"a" in x]  
print(newlist)

````````````````````````````````````````````````````````````````  
  
*#Program- list comprehension*fruits = ["apple", "banana", "cherry", "kiwi", "mango"]  
newlist = [x if x != "banana" else "orange" for x in fruits]  
print(newlist)

````````````````````````````````````````````````````````````````  
  
*#program- print any one of the color,get input from user*colors=("Red","Green","Violet","blue")  
print("List of color: ",colors)  
value=(input("Enter any one of the color: "))  
for i in colors:  
 if value in i:  
 print("Color existed")  
 else:  
 print("Not existed")  
 break

````````````````````````````````````````````````````````````````  
  
*#program- Dictionary*person = {"Name": "james", "age": 25, "salary": 20000}  
print(person)  
  
person = {"name": "Jessa", "country": "USA", "telephone": 1178}  
print(person)  
print(person.keys())  
for key in person:  
 print(key ,":",person[key])  
print("Length of the dict: ",len(person))

``````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````

Output:

value of a 10

value of b 20

value of c 30

value of d 40

`````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````

tuple1 (99, 88)

tuple2 (11, 22)

``````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````

(44, 55)

``````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````

Given list (11, [22, 33], 44, 55)

After modification (11, [222, 33], 44, 55)

``````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````

No.of appearances of 4: 3

``````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````

4

``````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````

['apple', 'banana', 'mango']

['apple', 'banana', 'mango']

['apple', 'orange', 'cherry', 'kiwi', 'mango']

``````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````

List of color: ('Red', 'Green', 'Violet', 'blue')

Enter any one of the color: Red

Color existed

``````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````

{'Name': 'james', 'age': 25, 'salary': 20000}

{'name': 'Jessa', 'country': 'USA', 'telephone': 1178}

dict\_keys(['name', 'country', 'telephone'])

name : Jessa

country : USA

telephone : 1178

Length of the dict: 3

``````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````