DICTIONARY

1) How do you add key-value pairs to dictionary?

Program :

a={'Name':'Aamir','Age':'22'}  
a['address'] = 'chennai'  
print(a)

2) How do you add given key-value pair to dictionary if and only if it is not present in the dictionary?

Program:

a={'Name':'Aamir','Age':'22','class':'first'}  
a['name1']='ajmal'  
a['Address']='Chennai'  
print(a)

3) How do you retrieve a value associated with a given key from the dictionary?

Program:

dict = {'Name': 'Aamir', 'Age': 22, 'Class': 'First'}  
dict2 = {'Name': 'Zoya', 'Age': 7, 'Class': 'First'}  
print(dict.get('Name'))

4) How do you check whether a particular key/value exist in a dictionary?

Program:

a={'Name': 'Aamir', 'Age': 22, 'Class': 'First'}  
print(a.\_\_contains\_\_('Name'))

5) How do you find out the number of key-value mappings present in a dictionary?

Program:

a = {'Name': 'Aamir', 'Age': 22, 'Class': 'First'}  
print(len(a))

6) How do you remove all key-value pairs from a dictionary? OR How do you clear the dictionary for reuse?

Program:

a={'Name': 'Aamir', 'Age': 22, 'Class': 'First'}  
a.clear()  
print(a)

7) How do you retrieve all keys and values present in a dictionary?

Program:

a={'Name': 'Aamir', 'Age': 22, 'Class': 'First'}  
print(a.keys())  
print(a.values())

8) How do you remove a key-value pair from the dictionary?

Program:

a={'Name': 'Aamir', 'Age': 22, 'Class': 'First'}  
del a['Class']  
print(a)

9) How do you remove a key-value pair from a dictionary if and only if the specified key is currently mapped to given value?

Program:

a={'Name': 'Aamir', 'Age': 22, 'Class': 'First'}  
b=input("enter the key: ")  
i=a.\_\_contains\_\_(b)  
print(i)  
del a[b]  
print(a)

10) How do you replace a value associated with a given key in the dictionary?

Program:

a={'Name': 'Aamir', 'Age': 22, 'Class': 'First'}  
a['Name']='Aakash'  
print(a)

11) How do you replace a value associated with the given key if and only if it is currently mapped to given value?

Program:

a={'Name': 'Aamir', 'Age': 22, 'Class': 'First'}  
b=input("enter the key: ")  
c=input("enter the value: ")  
i=a.\_\_contains\_\_(b)  
print(i)  
if i==True:  
 a[b]=c  
 print(a)  
else:  
 print(a)