1. Write a Python program to Extract Unique values dictionary values?

In [5]:
```
def dct(x):
    s=set()
    for i in x.values():
        s.add(i)
    return s
d={}
n=int(input('enter the number of key  :'))
for i in range(1,n+1):
    val=input('enter fruits name as a value :')
    d[i]=val
print('the unique vlaues are: ',dct(d))

```

```
enter the number of key  :5
enter fruits name as a value :apple
enter fruits name as a value :banana
enter fruits name as a value :apple
enter fruits name as a value :banana
enter fruits name as a value :orange
the unique vlaues are:  {'orange', 'apple', 'banana'}
```

2. Write a Python program to find the sum of all items in a dictionary?

In [11]:

```
def item(x):
    sum=0
    for i in x.values():
        sum=sum+i
    return sum
d={}
n=int(input('enter the number of types of product :'))
for i in range(n):
    val=input('enter product name :')
    ky=int(input('enter number of product:'))
    d[val]=ky
print(d)
print('the sum of items are: ',item(d))

```

```
enter the number of types of product :4
enter product name :fan
enter number of product:45
enter product name :ac
enter number of product:56
enter product name :cooler
enter number of product:32
enter product name :heater
enter number of product:20
{'fan': 45, 'ac': 56, 'cooler': 32, 'heater': 20}
the sum of items are:  153
```

3. Write a Python program to Merging two Dictionaries?

In [13]:

```
d1 = {1:"fan",2:"cooler"}
d2 = {3:"geezer",4:"ac"}
for i in d2.keys():
    d1[i]=d2[i]
print(d1)
```

```
{1: 'fan', 2: 'cooler', 3: 'geezer', 4: 'ac'}
```

4.Write a Python program to convert key-values list to flat dictionary?

In [17]:
```
key_values = [("key1", "value1"), ("key2", "value2"), ("key3", "value3")]
flat_dict = {}
for pair in key_values:
    flat_dict[pair[0]] = pair[1]
print("The resulting dictionary is:", flat_dict)


```

```
The resulting dictionary is: {'key1': 'value1', 'key2': 'value2', 'key3': 'value3'}
```

5. Write a Python program to insertion at the beginning in OrderedDict?

In [26]:
```
from collections import OrderedDict
lst=[('fan',23),('cooler',45),('ac',65)]
my_dict=OrderedDict(lst)
print('before updating:',my_dict)
my_dict.update({'heater':32})
my_dict.move_to_end('heater', last=False)
print('after updating:' ,my_dict)
```

```
before updating: OrderedDict([('fan', 23), ('cooler', 45), ('ac', 65)])
after updating: OrderedDict([('heater', 32), ('fan', 23), ('cooler', 45), ('ac', 65)])
```

6. Write a Python program to check order of character in string using OrderedDict()?

In [63]:

```
from collections import OrderedDict

s = input("Enter string ")
di = OrderedDict.fromkeys(s)
p = input("Enter pattern ")

ln = 0
for key in di.keys():
    if key in p:
        if key!=p[ln]:
            print(False)
            break
        ln += 1
else:
    print(True)

```

```
Enter string make fool
Enter pattern ake
True
```

7 Write a Python program to sort Python Dictionaries by Key or Value?

In [76]:

```
d1={'c':4,'a':2,'f':7}
d2={}
d3={}
lst=sorted(d1.keys()) # sort dictionary by key
for i in lst:
    d2[i]=d1[i]
print(d2)


```

```
{'a': 2, 'c': 4, 'f': 7}
```

In [ ]:

```
1
```