Assignment 12

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

In [2]:
```
dict1 = [{"Key1":"fe264"}, {"key2": "deif52"}, {"Key3": "efig862"}, {"Key4": "niwfg294"}, {"Key5":"noq2
6"}, {"Key6":"fefv56"},{"Key7":"ndehv695"}]
print("Original List: ",dict1)
u_value = set( val for dic in dict1 for val in dic.values())
print("Unique Values: ",u_value)
```

```
Original List:  [{'Key1': 'fe264'}, {'key2': 'deif52'}, {'Key3': 'efig862'}, {'Key4': 'niwfg294'},
{'Key5': 'noq26'}, {'Key6': 'fefv56'}, {'Key7': 'ndehv695'}]
Unique Values:  {'deif52', 'ndehv695', 'fe264', 'niwfg294', 'fefv56', 'efig862', 'noq26'}
```

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

In [13]:
```
dict2 = {"Key1":10, "key2": 20, "Key3": 21, "Key4": 96, "Key5":95, "Key6":56,"Key7":215}


print("Sum for all values is: ",sum(dict2.values()))
```

```
Sum for all values is:  513
```

3. Write a Python program to Merging two Dictionaries?

In [16]:
```
dict1 = {"Key1":10, "key2": 20, "Key3": 21,}
dict3 = {"Key4": 96, "Key5":95, "Key6":56 }

print({**dict1, **dict3})
```

```
{'Key1': 10, 'key2': 20, 'Key3': 21, 'Key4': 96, 'Key5': 95, 'Key6': 56}
```

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

In [17]:
```
languages = {'language' : ['python', 'java', 'c/c++', 'javascript'], 'year' : [1991, 1995, 1980, 1995]}

print("dictionary languages : " + str(languages))


final_year = dict(zip(languages['language'], languages['year']))

print("Flattened dictionary  language : " + str(final_year))
```

```
dictionary languages : {'language': ['python', 'java', 'c/c++', 'javascript'], 'year': [1991, 1995,
1980, 1995]}
Flattened dictionary  language : {'python': 1991, 'java': 1995, 'c/c++': 1980, 'javascript': 1995}
```

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

In [28]:
```
from collections import OrderedDict
a_dict = OrderedDict([('name', '1'), ('name2', '2')])

a_dict.update({'name3':'3'})
a_dict.move_to_end('name3', last = False)

# print result
print ("Final : "+str(a_dict))
```

```
Final : OrderedDict([('name3', '3'), ('name', '1'), ('name2', '2')])
```

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

In [30]:
```
from collections import OrderedDict
def check_order(a, b):
   my_dict = OrderedDict.fromkeys(a)
   pattern_length = 0
   for key,value in my_dict.items():
      if (key == b[pattern_length]):
         pattern_length = pattern_length + 1

      if (pattern_length == (len(b))):
         return 'The order of pattern is correct'

   return 'The order of pattern is incorrect'

my_input = 'Hello Everyone'
input_pattern = 'he'
print("The string is ")
print(my_input)
print("The input pattern is ")
print(input_pattern)
print(check_order(my_input,input_pattern))
```

```
The string is
Hello Everyone
The input pattern is
he
The order of pattern is incorrect
```

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

In [37]:
```
from collections import OrderedDict

def check_all(a):
    print(a.values())
    print(a.keys())

dict4 = {"Key4": 96, "Key5":95, "Key6":56 }

print(check_all(dict4))
```

```
dict_values([96, 95, 56])
dict_keys(['Key4', 'Key5', 'Key6'])
None
```

In [ ]:
```

```