# Assignment 12 Solutions

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

In [3]:
```
in_dict = {1:'Jammu',2:'Kashmir',3:'Srinagar',4:'Kedarnath',5:'Badrinath',6:'Ladakh',7:'Leh'}
print(in_dict.values())
print(f'Unique Values: {list(set(in_dict.values()))}')
```

```
dict_values(['Jammu', 'Kashmir', 'Srinagar', 'Kedarnath', 'Badrinath', 'Ladakh', 'Leh'])
Unique Values: ['Ladakh', 'Badrinath', 'Srinagar', 'Leh', 'Kashmir', 'Kedarnath', 'Jammu']
```

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

In [4]:
```
in_dict = {'White':20,'Black':30,'Blue':40,'Orange':50,'Green':300}
print('Sum of All items: ',sum(in_dict.values()))
```

```
Sum of All items:  440
```

## 3. Write a Python program to Merging two Dictionaries?

In [5]:
```
car_details = {
    'car_name':'Tesla'
}
instructors = {
    'car_instructors':['Elon Musk']
}
car_details.update(instructors)
print(car_details)
```

```
{'car_name': 'Tesla', 'car_instructors': ['Elon Musk']}
```

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

In [6]:
```
in_list = [('A',20),('B',30),('C',40),('D',50),('E',60),('F',70),('G',80),('H',90),('I',100)]

dict(in_list)


out_dict = {}
for ele in in_list:
    out_dict[ele[0]] = ele[1]
print(out_dict)
```

```
{'A': 20, 'B': 30, 'C': 40, 'D': 50, 'E': 60, 'F': 70, 'G': 80, 'H': 90, 'I': 100}
```

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

In [9]:
```
from collections import OrderedDict
dict_one = OrderedDict({'Windows':'Microsoft','Apple':'Iphone','Google':'chrome'})
print('dict_one',dict_one)
dict_two = {'Tata':'Cars'}
dict_one.update(dict_two)
print('dict_one',dict_one)
dict_one.move_to_end('Tata',last=False)
print('dict_one',dict_one)
```

```
dict_one OrderedDict([('Windows', 'Microsoft'), ('Apple', 'Iphone'), ('Google', 'chrome')])
dict_one OrderedDict([('Windows', 'Microsoft'), ('Apple', 'Iphone'), ('Google', 'chrome'), ('Tata', 'Cars')])
dict_one OrderedDict([('Tata', 'Cars'), ('Windows', 'Microsoft'), ('Apple', 'Iphone'), ('Google', 'chrome')])
```

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

In [10]:
```
from collections import OrderedDict

initial_list = {'a': 2000, 's': 300, 't': 400, 'g': 500, 'k':600, 'h': 700}
print(initial_list)

final_list = OrderedDict(dict(sorted(initial_list.items())))
print(final_list)
```

```
{'a': 2000, 's': 300, 't': 400, 'g': 500, 'k': 600, 'h': 700}
OrderedDict([('a', 2000), ('g', 500), ('h', 700), ('k', 600), ('s', 300), ('t', 400)])
```

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

In [11]:
```
d_items = {'GreenApple':300,'Strawberry':77,'Blackberry':40,'Blueberry':12}

def sort_dict(in_dict,sort_type):
    if sort_type == 'key':
        print(dict(sorted(in_dict.items(), key=lambda x:x[0], reverse=False)))
    else:
        print(dict(sorted(in_dict.items(), key=lambda x:x[1], reverse=False)))

sort_dict(d_items,'key')
sort_dict(d_items,'value')
```

```
{'Blackberry': 40, 'Blueberry': 12, 'GreenApple': 300, 'Strawberry': 77}
{'Blueberry': 12, 'Blackberry': 40, 'Strawberry': 77, 'GreenApple': 300}
```

In [ ]:
```

```