Basic Programming assignment 12

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

```
In [2]:  in_dict = {1:'Banglore',2:'Delhi',3:'Mumbai',4:'Prayagraj',5:'Kedarnath',6:'Kanpur',7:'Kedarnath'}
         print(in_dict.values())
         print(f'Unique Values: {list(set(in_dict.values()))}')
```

```
dict_values(['Banglore', 'Delhi', 'Mumbai', 'Prayagraj', 'Kedarnath', 'Kanpur', 'Kedarnath'])
Unique Values: ['Kedarnath', 'Delhi', 'Prayagraj', 'Mumbai', 'Kanpur', 'Banglore']
```

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

```
In [3]:  in_dict = {'Apple':10,'Mango':20,'Banana':30,'Guava':40,'PineApple':200}
         print('Sum of All items: ',sum(in_dict.values()))
```

```
Sum of All items:  300
```

3.Write a Python program to Merging two Dictionaries?

```
In [4]:  course_details = {
             'cousre_name':'Ineuron'
         }
         instructors = {
             'course_instructors':['Sudhanshu Kumar','Krish Naik']
         }
         course_details.update(instructors)
         print(course_details)
```

```
{'cousre_name': 'Ineuron', 'course_instructors': ['Sudhanshu Kumar', 'Krish Naik']}
```

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

```
In [5]:  in_list = [('A',10),('B',20),('C',30),('D',40),('E',50),('F',60),('G',70),('H',80),('I',90),('J',100)]

         # Method #1
         dict(in_list)

         # Method #2
         out_dict = {}
         for ele in in_list:
             out_dict[ele[0]] = ele[1]
         print(out_dict)
```

```
{'A': 10, 'B': 20, 'C': 30, 'D': 40, 'E': 50, 'F': 60, 'G': 70, 'H': 80, 'I': 90, 'J': 100}
```

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

```
In [6]:  from collections import OrderedDict
         dict_one = OrderedDict({'Apple':'Iphone','Microsoft':'Windows','Google':'chrome'})
         print('dict_one',dict_one)
         dict_two = {'Tesla':'SpaceX'}
         dict_one.update(dict_two)
         print('dict_one',dict_one)
         dict_one.move_to_end('Tesla',last=False)
         print('dict_one',dict_one)
```

```
dict_one OrderedDict([('Apple', 'Iphone'), ('Microsoft', 'Windows'), ('Google', 'chrome')])
dict_one OrderedDict([('Apple', 'Iphone'), ('Microsoft', 'Windows'), ('Google', 'chrome'), ('Tesla', 'SpaceX')]
)
dict_one OrderedDict([('Tesla', 'SpaceX'), ('Apple', 'Iphone'), ('Microsoft', 'Windows'), ('Google', 'chrome')]
)
```

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

```
In [7]:  from collections import OrderedDict

         initial_list = {'a': 1000, 'f': 200, 'd': 300, 'c': 400, 'b': 500, 'e': 600}
         print(initial_list)

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

```
{'a': 1000, 'f': 200, 'd': 300, 'c': 400, 'b': 500, 'e': 600}
OrderedDict([('a', 1000), ('b', 500), ('c', 400), ('d', 300), ('e', 600), ('f', 200)])
```

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

```
In [8]:  d_items = {'Mango':100,'PineApple':22,'Banana':60,'Grape':13}

         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')
```

```
{'Banana': 60, 'Grape': 13, 'Mango': 100, 'PineApple': 22}
{'Grape': 13, 'PineApple': 22, 'Banana': 60, 'Mango': 100}
```

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