Assignment 12 Solutions

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

In [1]:

```
test_dict = {'a': [5, 6, 7, 8],
             'b': [10, 11, 7, 5],
             'h': [6, 12, 10, 8],
             'i': [1, 2, 5]}

print("The original dictionary is : " + str(test_dict))
res = list(sorted({ele for val in test_dict.values() for ele in val}))
print("The unique values list is : " + str(res))
```

```
The original dictionary is : {'a': [5, 6, 7, 8], 'b': [10, 11, 7, 5], 'h':
[6, 12, 10, 8], 'i': [1, 2, 5]}
The unique values list is : [1, 2, 5, 6, 7, 8, 10, 11, 12]
```

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

In [2]:

```
test_dict = {'a' : 6,
             'b' :  11,
             'c' : 14,
             'd' : 7}

sum = 0
for i in test_dict.values():
    sum +=sum + i
print("Sun of all items is : {}".format(sum))
```

```
Sun of all items is : 127
```

3.Write a Python program to Merging two Dictionaries?

In [3]:

```
d1={'A':6,'B':2 ,'H':8}
d2={'C':3,'E':5}

d1.update(d2)
print("Concatenated dictionary is:")
print(d1)
```

```
Concatenated dictionary is:
{'A': 6, 'B': 2, 'H': 8, 'C': 3, 'E': 5}
```

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

In [4]:

```
test_dict = {'month' : [1, 2, 3],
             'name' : ['Jan', 'Feb', 'March']}

print("The original dictionary is : " + str(test_dict))

res = dict(zip(test_dict['month'], test_dict['name']))
print("Flattened dictionary : " + str(res))
```

```
The original dictionary is : {'month': [1, 2, 3], 'name': ['Jan', 'Feb', 'Ma
rch']}
Flattened dictionary : {1: 'Jan', 2: 'Feb', 3: 'March'}
```

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

In [5]:

```
# insertion of items in beginning of ordered dict
from collections import OrderedDict
iniordered_dict = OrderedDict([('Feb', '2'), ('Mar', '3')])

iniordered_dict.update({'Jan':'1'})
iniordered_dict.move_to_end('Jan', last = False)

print ("Ordered Dictionary after insertion : "+str(iniordered_dict))
```

```
Ordered Dictionary after insertion : OrderedDict([('Jan', '1'), ('Feb',
'2'), ('Mar', '3')])
```

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

In [6]:

```
from collections import OrderedDict

initial_list = {'a': 100, 'f': 300, 'd': 400, 'c': 200, 'b': 800, 'e': 700}
print(initial_list)

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

```
{'a': 100, 'f': 300, 'd': 400, 'c': 200, 'b': 800, 'e': 700}
OrderedDict([('a', 100), ('b', 800), ('c', 200), ('d', 400), ('e', 700),
('f', 300)])
```

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

In [7]:

```
# function calling
def dictionairy():

    # Declaring the hash function
    key_value = {}

    key_value[2] = 48
    key_value[1] = 4
    key_value[5] = 68
    key_value[4] = 28
    key_value[6] = 13
    key_value[3] = 424

    print("key_value",key_value)

    print("Task 2:-\nKeys and Values sorted in",
          "alphabetical order by the key  ")


    for i in sorted(key_value):
        print((i, key_value[i]), end=" ")


def main():
    dictionairy()

if __name__ == "__main__":
    main()
```

```
key_value {2: 48, 1: 4, 5: 68, 4: 28, 6: 13, 3: 424}
Task 2:-
Keys and Values sorted in alphabetical order by the key
(1, 4) (2, 48) (3, 424) (4, 28) (5, 68) (6, 13)
```