

Python_basic_programming_12

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

```
In [1]: in_dict = { 1: 'Rishikesh',2: 'Badrinath',3: 'Gangotri',4: 'Yamunotri',5: 'Kedarnath',
              6: 'Tirupati',7: 'Kedarnath'}
print(in_dict.values())
print(f'Unique Values: {list(set(in_dict.values()))}')
```

dict_values(['Rishikesh', 'Badrinath', 'Gangotri', 'Yamunotri', 'Kedarnath', 'Tirupati', 'Kedarnath'])
Unique Values: ['Gangotri', 'Yamunotri', 'Badrinath', 'Kedarnath', 'Rishikesh', 'Tirupati']

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

```
In [2]: 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 [3]: 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}