GO_STP_13267

Task 3

Chandan Kumar

- Dictionary Questions
 - Q.1 Write a Python Program to sort (ascending and descending) a dictionary by value.

Q.2 Write a Python Program to add a key to a dictionary.

Sample Dictionary: {0: 10, 1: 20}

Expected Result: {0: 10, 1: 20, 2: 30}

```
1 dict1={0:10, 1:20}
2 key, value=map(int, input().strip().split(" "))
3 dict1[key]=value
4 print(dict1.items())
    dict_items([(0, 10), (1, 20), (2, 30)])
```

- Q.3 Write a program asks for City name and Temperature and
- builds a dictionary using that Later on you can input City name and it will tell you the Temperature of that City.

```
1 temperature={}
 2 flag=True
 3 while(flag):
       city, temp=input().split()
 5
      temperature[city]=temp
 6
       ans=input("Want to enter more? y/n")
       flag=(ans=="y")
 7
 8 print(temperature.items())
10 city=input("Enter city name: ")
11 if(city in temperature.keys()):
       print(city+":"+temperature[city])
     dict_items([('Jaipur', '33'), ('Chennai', '35')])
     Jaipur:33
```

Q.4 Write a Python program to convert list to list of dictionaries.

```
Sample lists: [["Black", "Red", "Maroon", "Yellow"],

["#000000", "#FF0000", "#800000", "#FFFF00"]]

Expected_Output=[{'color_name': 'Black', 'color_code': '#000000'},

{'color_name': 'Red', 'color_code': '#FF0000'},

{'color_name': 'Maroon', 'color_code': '#800000'},

{'color_name': 'Yellow', 'color_code': '#FFFF00'}]

1 color=["Black", "Red", "Maroon", "Yellow"]
2 hex_code=["#000000", "#FF0000", "#800000", "#FFFF00"]
3 list_of_dict=list()
4 for c, h in zip(color, hex_code):
5 d={'color_name': c, 'color_code': h}
6 list_of_dict.append(d)
7 print(list_of_dict)

[{'color_name': 'Black', 'color_code': '#000000'}, {'color_name': 'Red', 'color_code}
```

Q.5 We have following information on Employees and their Salary (Salary is in lakhs)

```
1 employee=['John', 'Smith', 'Alice', 'Daneil']
2 salary=[14,13,32,21]
```

```
3 data={ }
 4 for e, s in zip(employee, salary):
       data[e]=s
 6
 7 choice=input("Enter command")
 8 if(choice=="print"):
 9
       for emp in data.keys():
           print(emp+"==>"+str(data[emp]))
10
11 elif(choice=="add"):
       name=input("Enter the name of employee")
12
       if name in data.keys():
13
           print(name+" Already exists")
14
15
       else:
           sal=int(input("Enter salary"))
16
17
           data[name]=sal
           print("Dictionary:",data.items())
18
19 elif(choice=="remove"):
20
       name=input("Enter name to remove")
21
       if name in data.keys():
           data.pop(name)
22
23
           for emp in data.keys():
               print(emp+"==>"+data[emp])
24
25
       else:
26
           print(name+" doesn't exist!")
27 elif(choice=="query"):
28
       name=input("Enter name of employee")
29
       print(name+": "+str(data[name]))
     John==>14
     Smith==>13
     Alice==>32
     Daneil==>21
```

Set Questions

Q.1 What is the difference between a set and a frozenset? Create any set and try to use frozenset(setname).

Ans.1 Frozen set is just an immutable version of a set.

Q.2 Find the elements in a given set that are not in another set
 Difference between set1 and set2 is {10,20,30}

```
1 set1 = {10,20,30,40,50}
2 set2 = {40,50,60,70,80}
3 print(set1-set2)
{10, 20, 30}
```

https://colab.research.google.com/drive/1Jgi5OTNQ7XHoGRoSpSvyxnqqjZPRcYGB#printMode=true

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