

Lab Assignment 13

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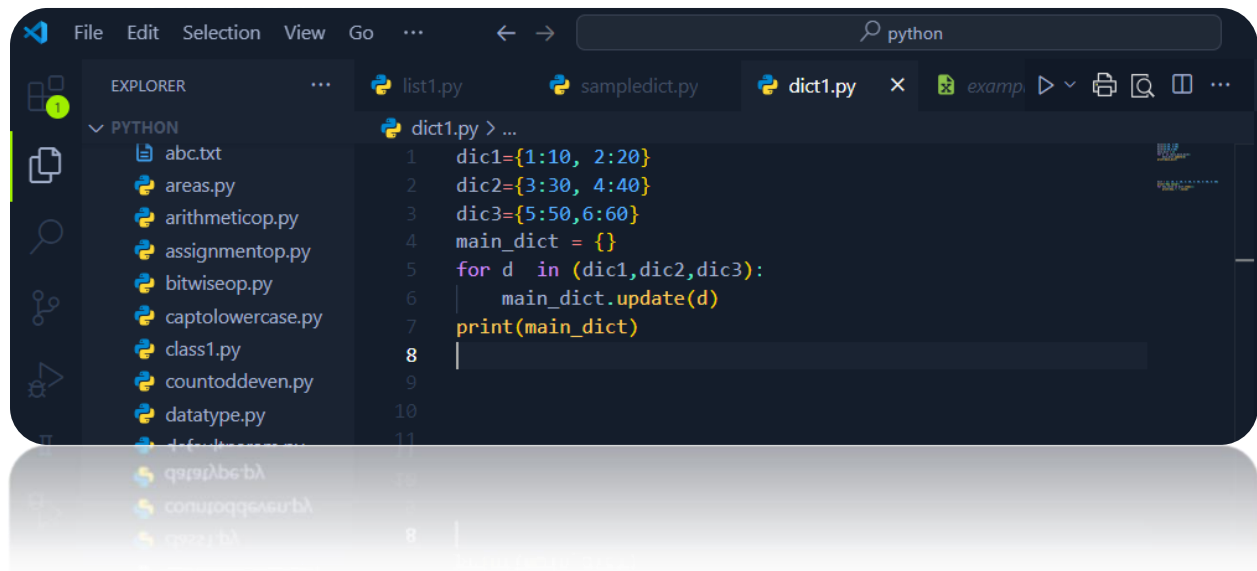
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Topic: dictionary

1. Write a Python script to concatenate the following dictionaries to create a new one.

Sample Dictionary : dic1={1:10, 2:20} dic2={3:30, 4:40}
dic3={5:50,6:60} Expected Result : {1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60}

Ans:

A screenshot of a Python IDE window. The Explorer pane on the left shows a file named 'dict1.py'. The main editor area displays the following Python code:

```
1 dic1={1:10, 2:20}
2 dic2={3:30, 4:40}
3 dic3={5:50,6:60}
4 main_dict = {}
5 for d in (dic1,dic2,dic3):
6     main_dict.update(d)
7 print(main_dict)
8
```

Output:

```
PS D:\python> python -u "d:\python\dict1.py"
{1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60}
```

2. Write a Python program to get the key, value and item in a dictionary.

input: dict_num = {1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60}

Ans:



```
dict1.py 12
example2.csv 13
exception1.py 14
file1.py 15
forloop.py 16 dict = {1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60}
forloopitertoo.py 17 print("key value")
game.py 18 for key,value in dict.items():
greatest.py 19     print(key," ",value)
gretest.py
ifelseswitch.py
learnvavr nv
> TIMELINE
> OUTLINE
Ln 8, Col 1 Spaces: 4 UTF-8 CRLF {}
```

output:

```
key value
1 : 10
2 : 20
3 : 30
4 : 40
5 : 50
6 : 60
PS D:\python>
```

Sample program with output:

Ans:

The screenshot shows a VS Code editor with a file explorer on the left containing various Python files. The main editor window displays a file named `sampledict.py` with the following code:

```
1 employee = {
2     "empId":100,
3     "email":["aryanverma9341@gmail.com","aryanvermabca2021@gmail.com"],
4     "empName":"aryan verma",
5     "salary": 20000,
6 }
7 print(employee)
8 print(employee["empId"])
9 print(employee["empName"])
10 print(employee["email"])
11 print(len(employee))
12 print(type(employee))
```

The output window on the right shows the execution of the script, displaying a `NameError` message and the output of the `python -u "d:\python\sampledict.py"` command:

```
NameError: name 'items' is not defined. Did you mean: 'iter'?
PS D:\python> python -u "d:\python\sampledict.py"
{1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60}
key value
1 : 10
2 : 20
3 : 30
4 : 40
5 : 50
6 : 60
PS D:\python> python -u "d:\python\sampledict.py"
{'empId': 100, 'email': ['aryanverma9341@gmail.com', 'aryanvermabca2021@gmail.com'], 'empName': 'aryan verma', 'salary': 20000}
100
aryan verma
['aryanverma9341@gmail.com', 'aryanvermabca2021@gmail.com']
4
<class 'dict'>
PS D:\python>
```

