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BRANCH- BTECH CSE  
SEM – 4<sup>TH</sup>  
SUBJECT – PYTHON LAB

1. Write a Python program to combine two dictionary adding values for common keys. d1 = {'a': 100, 'b': 200, 'c':300},d2 = {'a': 300, 'b': 200, 'd':400}

SOL

- CODE IN TEXT FORM

```
d1 = {'a': 100, 'b': 200, 'c': 300}
d2 = {'a': 300, 'b': 200, 'd': 400}
```

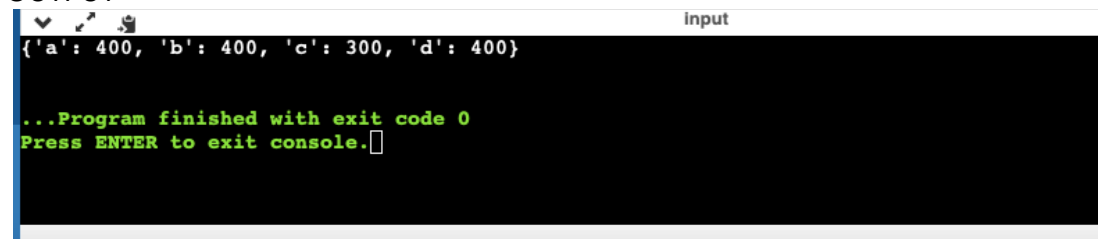
```
for i in d2 :
    if i in d1 :
        d1[i] = d1[i] + d2[i]
    else :
        d1[i] = d2[i]
print(d1)
```

- CODE IN COMPILER



```
main.py
1 d1 = {'a': 100, 'b': 200, 'c': 300}
2 d2 = {'a': 300, 'b': 200, 'd': 400}
3
4 for i in d2 :
5     if i in d1 :
6         d1[i] = d1[i] + d2[i]
7     else :
8         d1[i] = d2[i]
9 print(d1)
```

OUTPUT

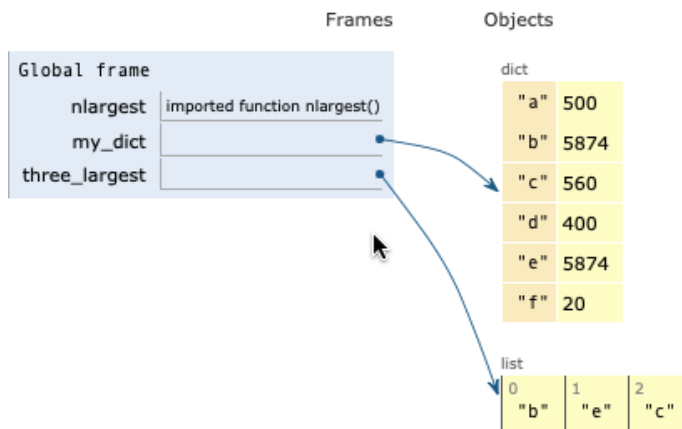


```
input
{'a': 400, 'b': 400, 'c': 300, 'd': 400}

...Program finished with exit code 0
Press ENTER to exit console.
```

2. Write a Python program to find the highest 3 values of corresponding keys in a dictionary.

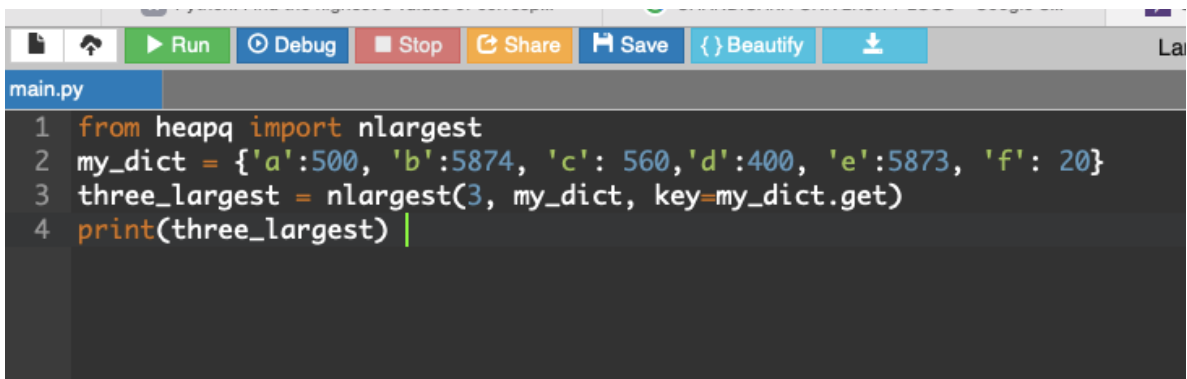
ALGO –



- CODE IN TEXT FORM –

```
from heapq import nlargest
my_dict = {'a':500, 'b':5874, 'c': 560, 'd':400, 'e':5873, 'f': 20}
three_largest = nlargest(3, my_dict, key=my_dict.get)
print(three_largest)
```

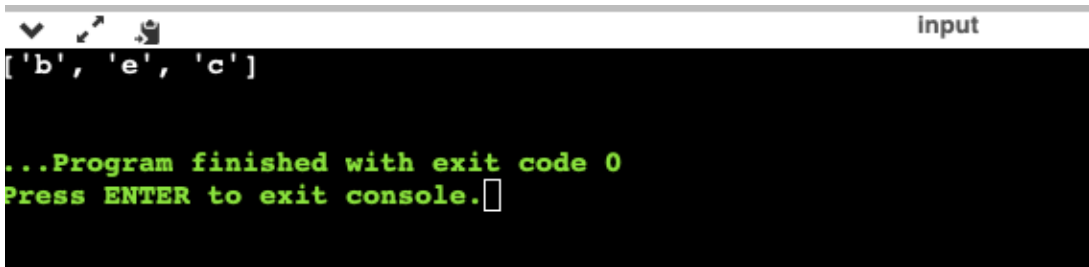
- CODE IN COMPILER-



The screenshot shows a Python IDE with a toolbar at the top containing buttons for Run, Debug, Stop, Share, Save, Beautify, and a download icon. The main editor window displays the following code in `main.py`:

```
1 from heapq import nlargest
2 my_dict = {'a':500, 'b':5874, 'c': 560, 'd':400, 'e':5873, 'f': 20}
3 three_largest = nlargest(3, my_dict, key=my_dict.get)
4 print(three_largest)
```

OUTPUT



The screenshot shows the output of the program in a console window. The output is as follows:

```
['b', 'e', 'c']

...Program finished with exit code 0
Press ENTER to exit console.
```