

main.py

Share

Run

```
1 # Task-1
2
3 set1={1,2,3,4,5}
4 set2={4,5,6,7,8}
5
6 set3=set1.intersection(set2) # create new set
7 print(set3)
8
9 set1.intersection_update(set2) # modify existing set
10 print(set1)
11
12 # Task-2
13
14 set1={1,2,3,4,5}
15 set2={4,5,6,7,8}
16
17 set3=set1.union(set2)
```

Output

```
{4, 5}
{4, 5}
{1, 2, 3, 4, 5, 6, 7, 8}
{1, 2, 3, 4, 5, 6, 7, 8}
{1, 2, 3}
{6, 7, 8}
{1, 2, 3, 6, 7, 8}
{1, 2, 3, 6, 7, 8}
True

=== Code Execution Successful ===
```

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```
11
12 # Task-2
13
14 set1={1,2,3,4,5}
15 set2={4,5,6,7,8}
16
17 set3=set1.union(set2)
18 print(set3)
19
20 set1={1,2,3,4,5}
21 set2={4,5,6,7,8}
22
23 set1.update(set2)
24 print(set1)
25
26 # Task-3
27
```

Output

▲

▼

{4, 5}

{4, 5}

{1, 2, 3, 4, 5, 6, 7, 8}

{1, 2, 3, 4, 5, 6, 7, 8}

{1, 2, 3}

{6, 7, 8}

{1, 2, 3, 6, 7, 8}

{1, 2, 3, 6, 7, 8}

True

=== Code Execution Successful ===

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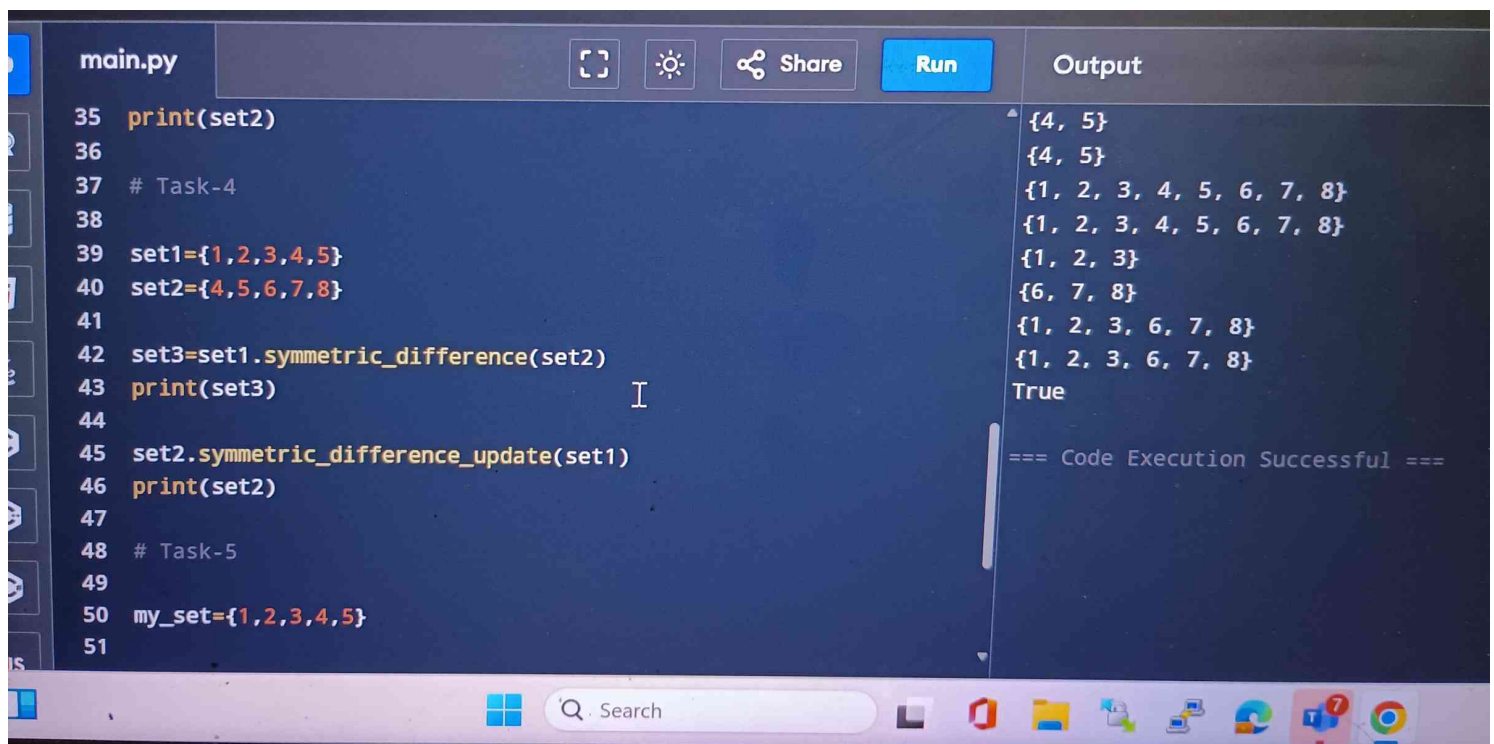
```
24 print(set1)
25
26 # Task-3
27
28 set1={1,2,3,4,5}
29 set2={4,5,6,7,8}
30
31 set3=set1.difference(set2)
32 print(set3)
33
34 set2.difference_update(set1)
35 print(set2)
36
37 # Task-4
38
39 set1={1,2,3,4,5}
40 set2={4,5,6,7,8}
```

Output

```
{4, 5}
{4, 5}
{1, 2, 3, 4, 5, 6, 7, 8}
{1, 2, 3, 4, 5, 6, 7, 8}
{1, 2, 3}
{6, 7, 8}
{1, 2, 3, 6, 7, 8}
{1, 2, 3, 6, 7, 8}
True

=== Code Execution Successful ===
```

3



The image shows a screenshot of a Python IDE interface. The editor window displays a file named `main.py` with the following code:

```
35 print(set2)
36
37 # Task-4
38
39 set1={1,2,3,4,5}
40 set2={4,5,6,7,8}
41
42 set3=set1.symmetric_difference(set2)
43 print(set3)
44
45 set2.symmetric_difference_update(set1)
46 print(set2)
47
48 # Task-5
49
50 my_set={1,2,3,4,5}
51
```

The output window on the right shows the results of the code execution:

```
{4, 5}
{4, 5}
{1, 2, 3, 4, 5, 6, 7, 8}
{1, 2, 3, 4, 5, 6, 7, 8}
{1, 2, 3}
{6, 7, 8}
{1, 2, 3, 6, 7, 8}
{1, 2, 3, 6, 7, 8}
True
=== Code Execution Successful ===
```

The IDE interface includes a top bar with icons for full screen, theme, share, and a blue `Run` button. The Windows taskbar is visible at the bottom of the screen.

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Share

Run

```
44
45 set2.symmetric_difference_update(set1)
46 print(set2)
47
48 # Task-5
49
50 my_set={1,2,3,4,5}
51
52 print(1 in my_set)
53
54
55
56
57
```

Output

{4, 5}
{4, 5}
{1, 2, 3, 4, 5, 6, 7, 8}
{1, 2, 3, 4, 5, 6, 7, 8}
{1, 2, 3}
{6, 7, 8}
{1, 2, 3, 6, 7, 8}
{1, 2, 3, 6, 7, 8}
True

=== Code Execution Successful ===