## **Lab Assignment 15**

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**Topic: Sets** 

Q1. Write a Python program to Get Only unique items from two sets.

Input:  $set1 = \{10, 20, 30, 40, 50\} set2 = \{30, 40, 50, 60, 70\}$ 

Output: {70, 40, 10, 50, 20, 60, 30}

Code:

```
# lab15.py > ...

1  # Define two sets with some common and unique elements

2  set1 = {10, 20, 30, 40, 50}

3  set2 = {30, 40, 50, 60, 70}

4  

5  # To get all unique elements from both sets (union), we use the '|' operator

6  # or we could use the union() method: set1.union(set2)

7  unique_items = set1 | set2

8  

9  # Output the result, which includes all elements from both sets, with duplicates removed

10  print("Output:", unique_items)
```

Output:

```
Output: {70, 40, 10, 50, 20, 60, 30}
```

Q 2. Write a Python program to Return a set of elements present in Set A or B, but not both.

Input:  $set1 = \{10, 20, 30, 40, 50\} set2 = \{30, 40, 50, 60, 70\}$ 

Output: {20, 70, 10, 60}

Code:

## Output:

Output: {20, 70, 10, 60}