**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}**

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

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

# Get unique items from both sets

unique\_items = set1.union(set2)

print(unique\_items)

**OUTPUT:**

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

**Q2. 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}**

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

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

# Symmetric difference (elements present in either set but not in both) symmetric\_difference = set1.symmetric\_difference(set2)

print(symmetric\_difference)

**OUTPUT:**

{20, 70, 10, 60}

**Q3.Write a Python program to Check if two sets have any elements in common. If yes, display the common elements. Input: set1 = {10, 20, 30, 40, 50} set2 = {60, 70, 80, 90, 10}**

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

set2 = {60, 70, 80, 90, 10}

# Intersection to find common elements

common\_elements = set1.intersection(set2)

if common\_elements:

print(common\_elements)

else:

print("No common elements")

**OUTPUT:**

{10}

**Q4. Write a Python program to Remove items from set1 that are not common to both set1 and set2. Input: set1 = {10, 20, 30, 40, 50} set2 = {30, 40, 50, 60, 70} Output: {40, 50, 30}**

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

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

# Retain only the common elements in set1

set1.intersection\_update(set2)

print(set1)

**OUTPUT:**

{40, 50, 30}