

Set Assignment 1

Q1. Write a Python program to create two sets, A and B, and find the elements that are common to both sets.

A = {1, 2, 3, 4, 5}

B = {4, 5, 6, 7, 8}

Q2. Write a Python program to create two sets, X and Y, and find the elements that are unique to each set (not present in both).

X = {10, 20, 30, 40}

Y = {30, 40, 50, 60}

Q3. Write a Python program to check if all elements of one set are contained within another set.

S1 = {1, 2, 3}

S2 = {1, 2, 3, 4, 5}

Q4. Write a Python program which create a new set from given two sets have only that elements which are not common.

A = {2, 4, 6}

B = {1, 3, 5}

Q5. Write a Python program to combine all elements from three different sets into one.

Set1 = {1, 2}

Set2 = {2, 3}

Set3 = {3, 4}

Q6. Write a Python program to find all elements that are in one set but not in another.

A = {10, 20, 30}

B = {20, 30, 40}

Q7. Write a Python program to remove a specific element(n) from a set, but only if it exists in the set.

S = {1, 2, 3, 4, 5}

Test case 1: n = 2

Test case 2: n = 7