4.1.1 Set Operations

ALGORITHM

Step 1: Start

Step 2: Input Set A

Step 3: Convert the input values into Set A

Step 4: Input Set B

Step 5: Convert the input values into Set B

Step 6: Find the Union of Set A and Set B

Union = A | B

Step 7: Find the Intersection of Set A and Set B

Intersection = A & B

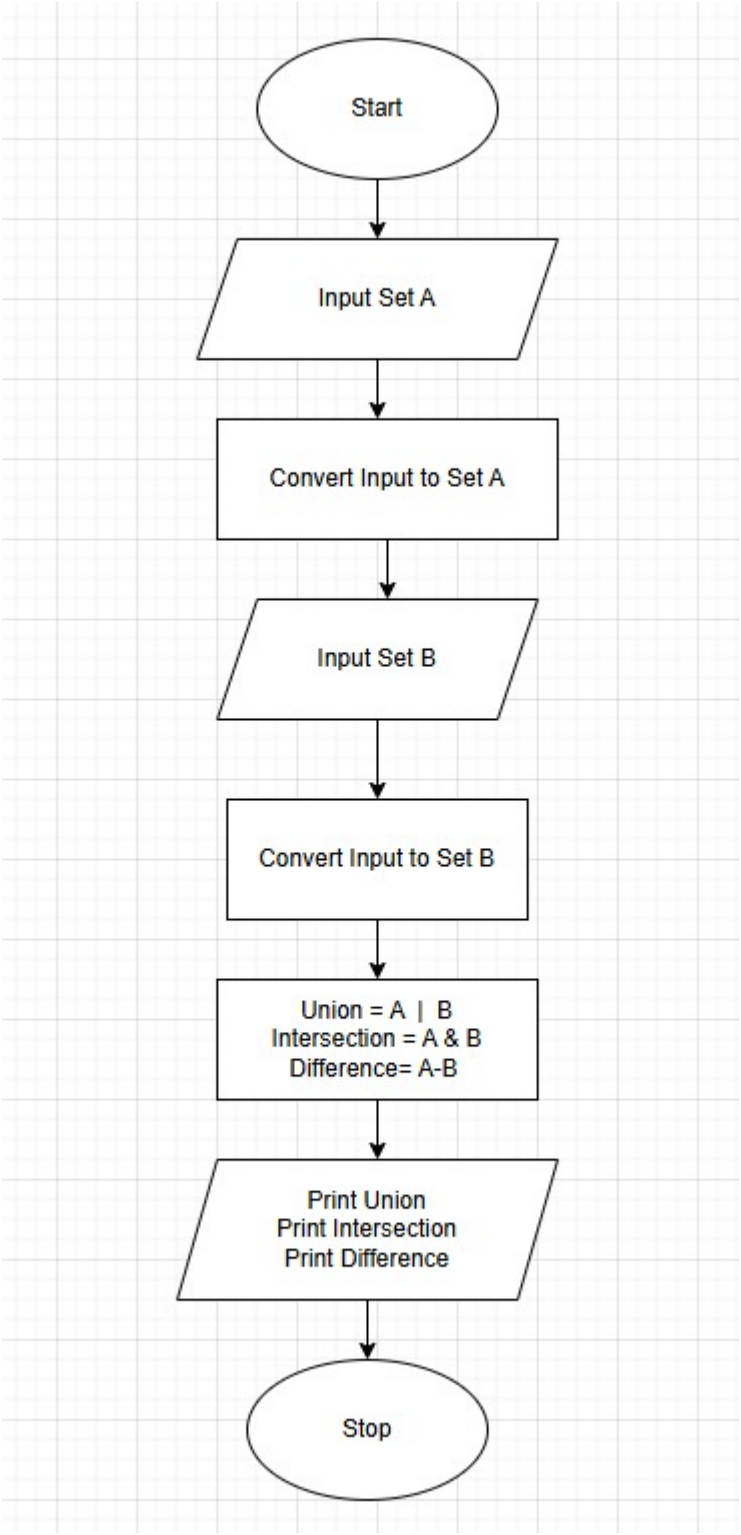
Step 8: Find the Difference of Set A and Set B

Difference = A − B

Step 9: Print Union, Intersection, and Difference

Step 10: Stop

FLOWCHART



PYTHON CODE

```
set_a = set(map(int, input("Set A: ").split()))

set_b = set(map(int, input("Set B: ").split()))
```

```
print("Union:", set_a | set_b)
print("Intersection:", set_a & set_b)
print("Difference:", set_a - set_b)
```

EXCECUTION