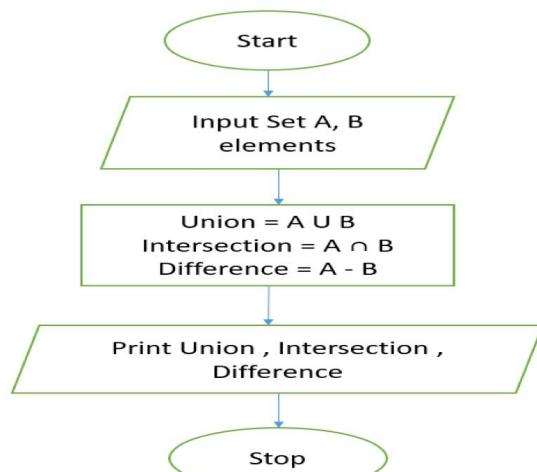


PROBLEM 4.1.1

Flowchart



Algorithm

Start

Read space-separated integers for **Set A**.

Read space-separated integers for **Set B**.

Convert the inputs into two sets: Set A and Set B.

Find the **Union** , Intersection and Difference of Set A and Set B.

Display the **Union**, Intersection and Difference.

Stop

The screenshot shows the CodeTantra IDE interface for problem 4.1.1. The title bar says "CODETANTRA Home". The left sidebar shows "4.1.1. Set Operations". The main area has the following content:

Input Format:

- First Line prompts "Set A: " followed by space-separated list of integers for Set A.
- The second input prompts "Set B: " followed by space-separated list of integers for Set B.

Output Format:

- The first line prints "Union: " followed by the union of Set A and Set B.
- The second line prints "Intersection: " followed by the intersection of Set A and Set B.
- The third line prints "Difference: " followed by the difference of Set A and Set B.

The code editor contains the following Python code:

```
1 set_a = set(map(int,input("Set A: ").split()))
2 set_b = set(map(int,input("Set B: ").split()))
3 union_set = set_a | set_b
4 intersection_set = set_a & set_b
5 difference_set = set_a - set_b
6 print("Union:", union_set)
```

The terminal window shows the execution results:

```
Set A: 1 2 3 4
Set B: 2 3 4 5
Union: {1, 2, 3, 4, 5}
Intersection: {2, 3, 4}
Difference: {1}
==== YOUR PROGRAM HAS ENDED ===
```