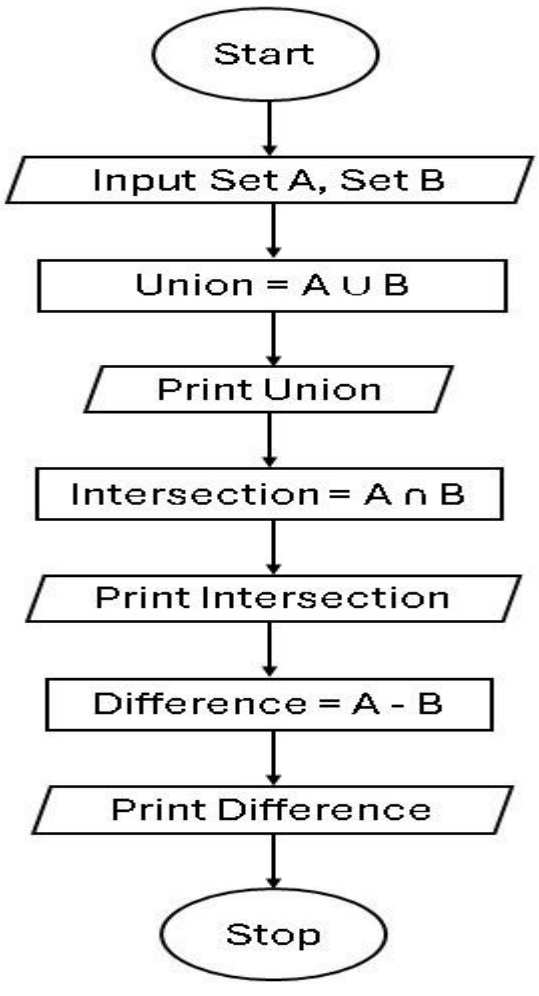
Experiment 4

4.1.1 Set Operations

Algorithm :

Step 1 : Start
Step 2 : Input Set A, Set B
Step 3 : Union = A ∪ B
Step 4 : Print Union
Step 5 : Intersection = A ∩ B
Step 6 : Print Intersection
Step 7 : Difference = A – B
Step 8 : Print Difference
Step 9 : Stop

Flowchart :



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Code :

```
set_a = set(map(int,input("Set  A: ").split()))
set_b = set(map(int,input("Set  B: ").split()))
union = set_a | set_b
Print("Union:  ",union)
intersection = set_a & set_b
Print("Intersection:  ",intersection)
difference= set_a - set_b
Print("Difference: ",difference)
```

Execution :