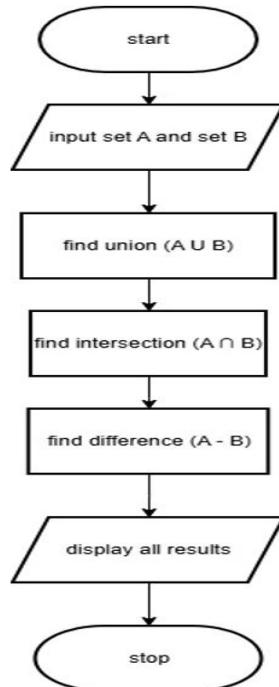


4.1.1



Algorithm: -

1. Start
2. Read elements of Set A
3. Read elements of Set B
4. Convert the inputs into sets
5. Find Union of Set A and Set B
6. Find Intersection of Set A and Set B
7. Find Difference (Set A – Set B)
8. Display Union
9. Display intersection
10. Display Difference
11. Stop

CODE TANTRA Home

jiya.rokde.batch2025@sltnagpur.siu.edu.in Support Logout

4.1.1. Set Operations

15:56 A C P -

Write a Python program to perform union, intersection and difference operations on Set A and Set B.

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.

Note:

- If there is no intersection between the two sets, the program prints an empty set, which appears as "set()" in the output.
- Please refer to the visible test cases for better understanding.

Sample Test Cases +

Explorer setoperat... 1 # Type Content here... 2 seta=set(map(int,input("Set A: ").split())) 3 setb=set(map(int,input("Set B: ").split())) 4 u = seta | setb 5 i = seta & setb 6 d = seta - setb 7 print("Union:", u) 8 print("Intersection:", i) 9 print("Difference:", d)

Terminal Test cases < Prev Reset Submit Next >

