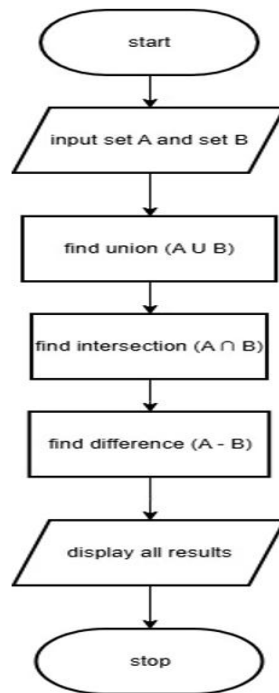


4.1.1



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

CODETANTRA

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4.1.1. Set Operations

15:58

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

setoperat...

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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

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