Hint for Assignment <3>: Finding Missing element on array

Learning Objective:

This program helps you practice array manipulation and looping in Java to find and print the first missing element in an array.

Expected Completion Time:

Best Case: 10 minutes
Average Case: 15 minutes

Assignment Details:

> Find the missing element in the given array
> Input -> {1, 4,3,2,8, 6, 7};
> Output -> 5

Requirements:

- Create a Java class named FindMissingElement.
- Add a main method in the FindMissingElement class, either by typing it or using a shortcut (Type main, ctrl+space & Enter).
- Inside the main method, write java code to print Missing Number in the console.
- Save the code and run the program (right-click -> Run as -> Java Application).

Hints to Solve:

- Sort the array
- Loop through the array (start i from arr[0] till the length of the array)
- Check if the iterator variable is not equal to the array values respectively
- Print the number
- Once printed break the iteration

Expected Outcome:

Upon completion, you should be able to understand
1. How to initialize the for loop effective to solve a problem
2. How to use if condition effectively for comparing values and solve the problem
3. The logic to identify missing element in array which is having sequential values