QUEZON CITY UNIVERSITY

COLLEGE OF COMPUTER STUDIES
INFORMATION TECHNOLOGY DEPARTMENT

AL101 – ALGORITHM AND COMPLEXITY

ACTIVITY 1

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YEAR/SECTION: SBIT3G

DATE:

SCORE	PERCENTAGE

CODE:

```
import java.util.Scanner;
public class Main {
  public static void main(String[] args) {
    Scanner s = new Scanner(System.in);
    int[] numbers = new int[10];

    System.out.println("Enter 10 different numbers");
    for(int x=0;x<numbers.length;x++)
    {
    numbers[x] = s.nextInt();
    }

    int min = numbers[0];
    int max = numbers[0];

    for (int i = 1; i < numbers.length; i++) {
      if (numbers[i] > max) {
        max = numbers[i];
      }
      if (numbers[i] < min) {
        min = numbers[i];
      }
    }
```

OUTPUT:

```
Enter 10 different numbers
34
12
54
12
75
83
23
96
53
131
Minimum number: 12
Maximum number: 131
```

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PSEUDOCODE:

1. Let the user set an array of numbers.
2. Set the first element of the array as the initial minimum and maximum value.
3. Iterate through the array starting from the second element using for loop.
4. For each element, check if it is greater than the current maximum. If yes, set it as the new maximum.
5. For each element, check if it is less than the current minimum. If yes, set it as the new minimum**.**
6. Print the minimum and maximum values.

FLOWCHART: