University of Petra		
Faculty of Information Technology		كلية تكنولوجيا المعلومات
Department of Computer Science		قسم علم الحاسوب

Information Technology Fundamentals
601105
Final Exam – Coding Question – 2025 (1)
Form A

Your Name: …….. **Your ID: ……**

Your Instructor Name: ……

Instructions for the Exam:

- Write your name and ID number on the exam and answer sheets.
- Write the number of the section that you enrolled in.
- Write the name of your instructor.
- Questions in the exam not allowed.
- Using any type of technology (mobiles, smart watches) not allowed
- Using extra papers or sheets not allowed
- This is the coding question of the final exam (other questions are computerized).
- Read the following question and write your answer on the paper itself.
- Using VS Code or other IDEs is not allowed.

For instructor use only:

Question number	Course ILO	Program ILO	Question weight	Student mark
Q1	P1		10	
			Total /45	

Question1: Write a Java program that asks the user to enter the number of integer values, find the **minimum(min)** and the **maximum(max)** of these numbers and print the results. Start by asking the user to enter the number of values they have. Then use **loop** to get the values while keeping track of the min and max.

1. Ask the user to enter the **number of integer values**.
2. If the entered number is **zero**, print the following message:**"You inserted a zero, bye"**, then (exit) the program.
3. Otherwise:Use a **loop** to read the integer values from the user.
4. Find the **minimum** and **maximum** values of the entered integer values.
5. Print the **minimum** and **maximum** value

Note: For example, if the input **number of integer values** is 3, we should see an output as follows:

```
Enter the count of numbers: 3
Enter the numbers:
55
70
90
Minimum number: 55
Maximum number: 90
```

Solution:

```
import java.util.Scanner;  //0.25
public class MinMaxValues {  //0.25
   public static void main(String[] args) {   //0.25

      Scanner input = new Scanner(System.in);   //0.25

      System.out.print("Enter the number of integer values: ");   //0.25
      int n = input.nextInt();   //0.5

      // If number of values is zero, exit the program
      if (n == 0) {    //0.5
         System.out.println("You inserted a zero, bye");   //0.25
      }
else{      //0.5
      System.out.print("Enter value 1: ");    //0.25
```

```
        int value = input.nextInt(); //0.5

        int min = value;  //0.5
        int max = value;  //0.5

        // Loop to read remaining values
        for (int i = 2; i <= n; i++) {   //1
            System.out.print("Enter value " + i + ": ");   //0.25
            value = input.nextInt();   0.5

            if (value < min)   //0.75
                min = value;  //0.75

            if (value > max)   //0.75
                max = value;   //0.75
        }
}
        System.out.println("Minimum value = " + min);   //0.25
        System.out.println("Maximum value = " + max);  //0.25
    }
}
```