// Number of questions

final int NUMBER\_OF\_QUESTIONS = 3;

// Count the number of correct answers

int correctCount = 0;

// Count the number of questions

int count = 0;

long startTime = System.currentTimeMillis();//for Time how long you finish to answer the question

String output = "";

// output string is initially empty

Scanner input = new Scanner(System.in);

while (count < NUMBER\_OF\_QUESTIONS) { // while is a loop

// 1. Generate two random single-digit integers

int number1 = (int)(Math.random() \* 10);

int number2 = (int)(Math.random() \* 10);

// 2. If number1 < number2, swap number1 with number2

if (number1 < number2) {

int temp = number1;

number1 = number2;

number2 = temp;

}

// 3. Prompt the student to answer “What is number1 – number2?”

System.out.print(

"What is " + number1 + " - " + number2 + "? ");

int answer = input.nextInt();

// 4. Grade the answer and display the result

if (number1 - number2 == answer) {

System.out.println("You are correct!");

correctCount++;

}

else

System.out.println("Your answer is wrong.\n" + number1

+ " - " + number2 + " should be " + (number1 - number2));

// Increase the count

count++;

output += "\n" + number1 + "-" + number2 + "=" + answer +

((number1 - number2 == answer) ? " correct" : " wrong");

}

long endTime = System.currentTimeMillis();

long testTime = endTime - startTime;

System.out.println("Correct count is " + correctCount +

"\nTest time is " + testTime / 1000 + " seconds\n" + output);

}

}