//Author: Everistus Akpabio

package program4;

import java.util.Scanner;

import org.w3c.dom.ranges.Range;

public class Program4 {

public static void main(String[] args) {

Scanner keyboard = new Scanner(System.in);

//Variables declared

double firstNumber, secondNumber;

//Collect user data

System.out.println("Enter the first number : ");

firstNumber = keyboard.nextDouble();

System.out.println("Enter the second number : ");

secondNumber = keyboard.nextDouble();

if(firstNumber < secondNumber)

System.out.println("The first number is less than the second number");

if(firstNumber > secondNumber)

System.out.println("The first number is greater than the second number");

if(firstNumber == secondNumber)

System.out.println("The first number is equal to the second number");

if(firstNumber <= secondNumber)

System.out.println("The first number is less than or equal to the second number");

if(firstNumber != secondNumber)

System.out.println("The first number is not equal to the second number");

if (secondNumber == 0)

System.out.println("Cannot divide by zero");

else if ((firstNumber / secondNumber)<1)

System.out.println("Proper fraction");

else System.out.println("Improper fraction");

if ((firstNumber > (secondNumber -1)) && (firstNumber > (secondNumber + 1)))

System.out.println("The first number is in range");

else System.out.println("The first number is out of range");

if (firstNumber >= 90)

System.out.println("A");

else if (firstNumber >= 80)

System.out.println("B");

else if (firstNumber >= 70)

System.out.println("C");

else if (firstNumber >= 60)

System.out.println("D");

else System.out.println("F");

if (secondNumber >= 1 && secondNumber <= 100)

System.out.println("In range");

else System.out.println("Out of range");

//END

}

}

OUTPUT

run:

Enter the first number :

20

Enter the second number :

12

The first number is greater than the second number

The first number is not equal to the second number

Improper fraction

The first number is in range

F

In range

BUILD SUCCESSFUL (total time: 5 seconds)