Exercise #4

import java.util.Scanner;

public class Exercise4 {

// the static main method

public static void main(String[] args){

Scanner sc = new Scanner(System.in);

// ask the user for the number

System.out.print("Enter the number: ");

int num = sc.nextInt();

int answer = evenOrOdd(num);

System.out.println("The result is " + answer);

sc.close();

}

// decide if the number is even or odd

// the parameter is the number

// if it's even, return 1 as an integer

// if it's odd, return 0 as an integer

public static int evenOrOdd(int num) {

return (num + 1) % 2 ;

}

}

Exercise #5

import java.util.Scanner;

public class Exercise5 {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

// ask the user for the first number

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

int num1 = sc.nextInt();

// ask the user for the second number

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

int num2 = sc.nextInt();

// decide if the second number is a multiple of the first number

boolean answer = isMultiple(num1, num2);

// display the result

System.out.println("The result is " + answer);

sc.close();

}

// decide if the second number is a multiple of the first number

// the parameters are the first number and the second number

// return true if it is a multiple

// return false if it is not a multiple

public static boolean isMultiple(int num1, int num2) {

return num2 % num1 == 0;

}

}