Write a program to print all the composite numbers between a and b?

CODE:

import java.util.Scanner;

public class CompositeNumbers {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

// Getting the values of a and b from the user

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

int a = scanner.nextInt();

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

int b = scanner.nextInt();

// Printing all composite numbers between a and b

System.out.println("Composite numbers between " + a + " and " + b + ":");

printCompositeNumbers(a, b);

scanner.close();

}

public static void printCompositeNumbers(int a, int b) {

for (int i = a; i <= b; i++) {

if (isComposite(i)) {

System.out.print(i + " ");

}

}

System.out.println();

}

public static boolean isComposite(int num) {

if (num <= 1) {

return false;

}

for (int i = 2; i <= Math.sqrt(num); i++) {

if (num % i == 0) {

return true;

}

}

return false;

}

}

OUTPUT:

C:\javap>javac CompositeNumbers.java

C:\javap>java CompositeNumbers

Enter the starting number (a): 6

Enter the ending number (b): 9

Composite numbers between 6 and 9:

6 8 9

