Write a program to print n prime numbers after nth prime number

CODE:

import java.util.Scanner;

public class NextNPrimeNumbers {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter the value of n: ");

int n = scanner.nextInt();

int nthPrime = findNthPrime(n);

System.out.println("The " + n + "th prime number is: " + nthPrime);

printNextNPrimes(nthPrime, n);

scanner.close();

}

public static int findNthPrime(int n) {

int count = 0;

int num = 1;

while (count < n) {

num++;

if (isPrime(num)) {

count++;

}

}

return num;

}

public static boolean isPrime(int num) {

if (num <= 1) {

return false;

}

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

if (num % i == 0) {

return false;

}

}

return true;

}

public static void printNextNPrimes(int start, int n) {

System.out.println("The next " + n + " prime numbers after " + start + " are:");

int count = 0;

int num = start;

while (count < n) {

num++;

if (isPrime(num)) {

System.out.println(num);

count++;

}

}

}

}

OUTPUT:

C:\javap>javac NextNPrimeNumbers.java

C:\javap>java NextNPrimeNumbers

Enter the value of n: 3

The 3th prime number is: 5

The next 3 prime numbers after 5 are:

7

11

13

