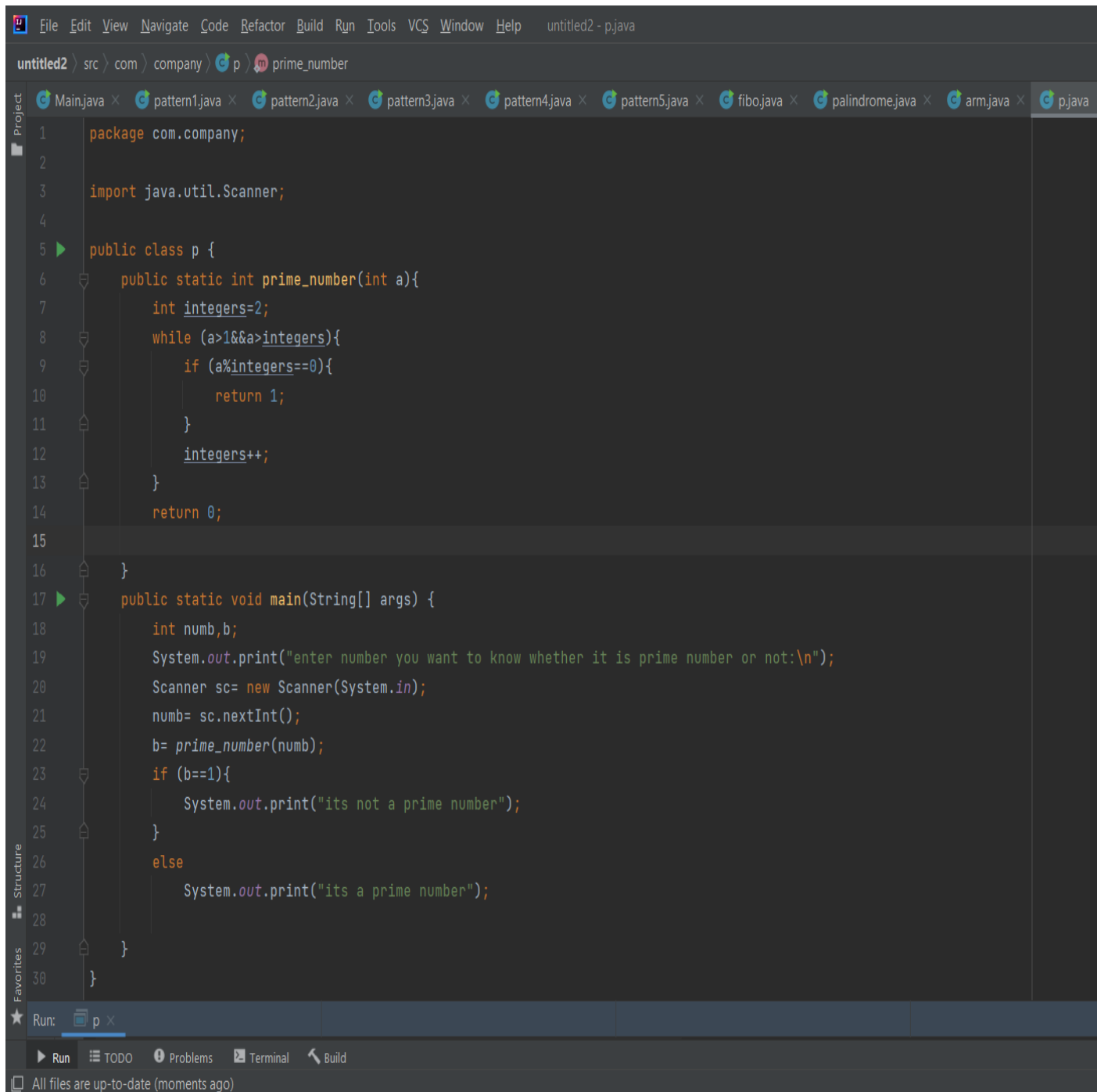


PROGRAM TO CHECK WETHER NUMBER IS PRIME NUMBER OR NOT

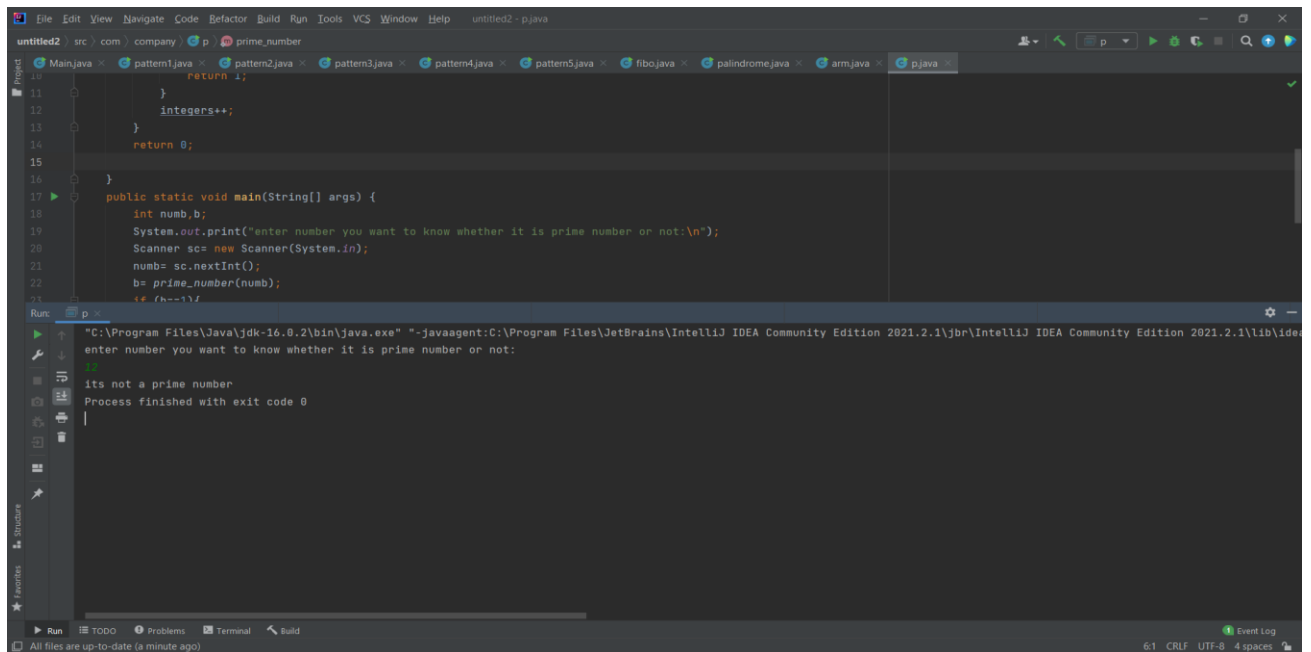


The screenshot shows an IDE window titled 'untitled2 - p.java'. The menu bar includes File, Edit, View, Navigate, Code, Refactor, Build, Run, Tools, VCS, Window, and Help. The breadcrumb navigation shows 'untitled2 > src > com > company > p > prime_number'. The project explorer on the left shows a 'Project' view with a tree structure containing 'Main.java', 'pattern1.java', 'pattern2.java', 'pattern3.java', 'pattern4.java', 'pattern5.java', 'fibo.java', 'palindrome.java', 'arm.java', and 'p.java'. The editor displays the following Java code:

```
1 package com.company;
2
3 import java.util.Scanner;
4
5 public class p {
6     public static int prime_number(int a){
7         int integers=2;
8         while (a>1&&a>integers){
9             if (a%integers==0){
10                 return 1;
11             }
12             integers++;
13         }
14         return 0;
15     }
16 }
17 public static void main(String[] args) {
18     int numb,b;
19     System.out.print("enter number you want to know whether it is prime number or not:\n");
20     Scanner sc= new Scanner(System.in);
21     numb= sc.nextInt();
22     b= prime_number(numb);
23     if (b==1){
24         System.out.print("its not a prime number");
25     }
26     else
27         System.out.print("its a prime number");
28 }
29 }
30 }
```

The bottom status bar shows 'Run: p x' and a toolbar with 'Run', 'TODO', 'Problems', 'Terminal', and 'Build' buttons. A message at the bottom states 'All files are up-to-date (moments ago)'.

OUTPUT FOR NOT A PRIME NUMBER:



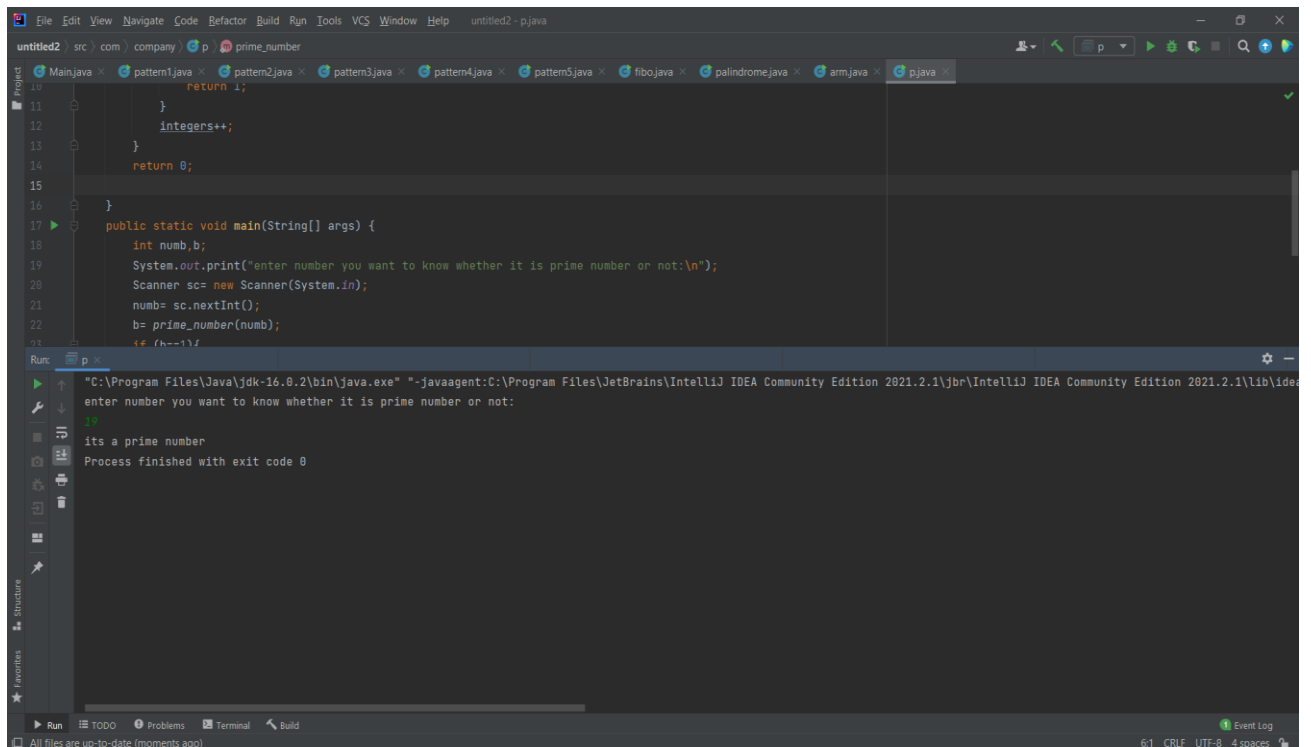
The screenshot shows the IntelliJ IDEA interface with a Java project named 'prime_number'. The code in 'Main.java' is as follows:

```
10  return i;
11  }
12  integers++;
13  }
14  return 0;
15
16  }
17  public static void main(String[] args) {
18      int numb,b;
19      System.out.print("enter number you want to know whether it is prime number or not:\n");
20      Scanner sc= new Scanner(System.in);
21      numb= sc.nextInt();
22      b= prime_number(numb);
23      if (b==1){
```

The Run window shows the following output:

```
"C:\Program Files\Java\jdk-16.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2.1\jbr\IntelliJ IDEA Community Edition 2021.2.1\lib\ide
enter number you want to know whether it is prime number or not:
its not a prime number
Process finished with exit code 0
```

OUTPUT FOR PRIME NUMBER:



The screenshot shows the IntelliJ IDEA interface with the same Java project 'prime_number'. The code is identical to the previous screenshot.

The Run window shows the following output:

```
"C:\Program Files\Java\jdk-16.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2.1\jbr\IntelliJ IDEA Community Edition 2021.2.1\lib\ide
enter number you want to know whether it is prime number or not:
its a prime number
Process finished with exit code 0
```