

In the beginning of my code I created a method for isprime, this method determines if prime is true using boolean with a argument of int un which is for the users number. I then declared all my variables, un; which is short for 'usernumber' then I used 'i' for my declaration for my loop variable.

Using a boolean variable to check if a users number is true or false to the boolean variable.

I used conditional statements to check if the numbers are prime. In my first conditional statement if usernumber is equal to 1 or zero then the boolean value is true. In my second conditional statement for 'i' is = 2,  $i \leq un / 2$  ; ++i) this command takes the numbers between 2 and user's inputted number then after if the users number has a remainder of 0 then the number is not prime. I have 3 different If and for conditional statements for if 3 different cases occur. !prime will check if prime is false and if it is then prime is true.

```
public static void isprime(int un)
{
    int i; //for loop variable
    boolean prime = false;
    if (un == 1 || un == 0) // if user input is 1 or 0 then the boolean value is true
    {
        prime = true;
    }

    for (i = 2; i <= un / 2; ++i) //Take the numbers between 2 and usernumber
    {
```

```
guessinggame.java  *primenumbers.java X  guessinggamepta.java  *groupingassignment.java
64
65     for (i = 2; i <= un / 2; ++i) //Take the numbers between 2 and usernumber
66     {
67
68
69 if (un % i == 0) //if the remainder is 0, than that means the number is not a prime
70
71
72
73         {
74
75             prime = true;
76
77
78
79         }
80
81     }
82
83
84
85 if (!prime) //if prime is not true
86
87     {
88
89         System.out.print("Your number is prime.");
90
91     }
92
93     else //if prime is true
94
95     {
96
97         System.out.print("Your number isn't prime.");
```