ReflectionLogs - PrimeNumbers[Mastery]

So far I have just copy pasted my code from the chapter 5 code, so I can begin adding on to it.

```
public static void main(String[] args) {
    // TODO Auto-generated method stub

//Preparing for user input
Scanner input = new Scanner(System.in);

//Declaration
int user_num; //user input

System.out.println("Enter a number. This program will tell you if it is prime or not: "); //prompt user to enter number user_num = input.nextInt(); //store number in variable
isPrime(user_num);
```

I removed the boolean prime variable and am going to add it to the new method I created, and I will also in that method use the parameter of user num.

```
public static void isPrime(int user_num) {
   boolean prime = false;
```

I created a new method, and removed the var boolean prime from the main method, and have put it in the isPrime method with the parameter user_num.

```
public class PrimeNumbers {
   public static void isPrime(int user_num) {
      boolean prime = false;

   if (user_num == 1 || user_num == 0) //If the users inputed number is 1, 0 , or a negative number {
      prime = true;
   }

   for (int i = 2; i <= user_num / 2; ++i) //Take the numbers between 2 and user number {
      if (user_num % i == 0) //if the remainder is 0, than that means the number is not a prime {
            prime = true;
      }
   }

   if (!prime) //if prime is not true {
            System.out.print("Your number is prime.");
      }
      else //if prime is true {
            System.out.print("Your number isn't prime.");
      }
}</pre>
```

To complete the code, I copy pasted the if, for and if statements from my chapter 5

code, and the code works. I modified the for loop by creating i of type int in the for loop, which I originally had defined outside of the for loop. Now the code will run and work properly.