

Credit Name:

Assignment Name: PrimeNumber

Describe the errors you've encountered while working on this assignment. What caused the error and how do you overcome the error?

```
3 public class PrimeNumber {
4
5 public static void main(String[] args) {
6     try (Scanner userInput = new Scanner(System.in)) {
7
8         //the user input
9         System.out.print("Please enter your number: ");
10        int number = userInput.nextInt();
11
12        //the output for if its prime or not
13        if (isprime(number)) {
14            System.out.println("It is a prime number");
15        } else {
16
17            System.out.println("It is not a prime number");
18        }
19    }
20 }
21 }
22 }
23
24 //this is the method to check if its prime
25 public static boolean isprime(int number) {
26
27     //checks if the number is 1 or under if it is then its instantly false
28     if (number <= 1) {
29
30
31
32         return false;
33     }
34
35     //start by checking if its divisible by 2 all the way to the square root of the number
36     for (int i = 2; i <= Math.sqrt(number); i++) {
37         //checking for divisibility
38         if (number % i == 0) {
39             return false;
40         }
41     }
42     //if nothing is found its returned true
43 }
```

This isn't really an error but after I finished the program I found out that the textbook asked for the method name to be capital P and I had it underscore p so I changed it to isPrime

```
for (int i = 2; i <= Math.sqrt(number); i++) {
    //checking for divisibility
    if (number % i == 0) {
        return false;
    }
}
```

Here i put one equal sign when i know that the = sign is for assigning variables and == is to check if two values are equal

```
10 int number = userInput.nextInt();
11
12 //the output for if its prime or not
13 if (isPrime(number)) {
14     System.out.println("It is a prime number");
15 } else {
16     System.out.println("It is not a prime number");
17 }
18
19
```

I forgot to put the second bracket on the end

```
//the output for if its prime or not
if (isPrime(number)); {
    System.out.println("It is a prime number");
} else {
    System.out.println("It is not a prime number");
}
```

The same thing as the last one but i had a semi-colon the whole time when its an error and messes up the else statement so i had to remove it this one took a long time to find why the lese statement was red