Credit Name: CSE 2110 Procedural Programming 1
Assignment Name: PrimeNumber Part A

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

```
Scanner input = new Scanner(System.in);
System.out.println("Please enter any whole number: ");
int num = input.nextInt();

for (int i = 2; i<num; i ++) {
    if (num % i == 0) {
        System.out.print("Your number is NOT a prime number.");
        break;
    }
}</pre>
System.out.print("Your number IS a prime number!");
```

```
Welcome to the Prime Number application.

Please enter any whole number:

6

Your number is NOT a prime number. Your number IS a prime number!
```

Although the first part of the output is correct (Stating that it is not a prime number), it continues on to print that it is a prime number afterwards.

```
int prime = 0;
for (int i = 2; i<num; i ++) {
    if (num % i == 0) {
        prime = 1;
        break;
    }
}
if (prime == 1) {
        System.out.print("Your number is NOT a prime number.");
}
else {
        System.out.print("Your number IS a prime number!");
}</pre>
```

Welcome to the Prime Number application.

Please enter any whole number:

6

Your number is NOT a prime number.

To fix this, instead of making it print the statement directly in the first if statement, I created a variable that would change depending on the outcome, and created a if-else statement afterwards to print the correct responding message.