In the beginning of my code I first 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 <= 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.

```java
//Declaration

int un; //user input

int i; //for loop variable

boolean prime = false; // finding out if number is prime or not


System.out.println("Enter a number. This program will tell you if it is prime or not: "); //prompt user to enter number

un = input.nextInt(); //store number in variable


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

{
```

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

        {

if (un % 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.");
```