

Reflection Log Prime Number

```
Scanner userInput = new Scanner(System.in);

System.out.print("Welcome! Please enter any number of your choice: ");

int num = userInput.nextInt();

// Start assuming it's prime if > 1 using boolean function

boolean isPrime = (num > 1);

for (int i = 2; i * i <= num; i++) {
```

The program asks the user to enter any number of their choice. The program then stores that number and determines if it is a true prime or false prime using the boolean function.

```
    if (num % i == 0) {
        // Finding a divisor

        isPrime = false;

        //Ends the code once number is stored and calculated if its prime or not.
        break;
    }

//Tells the user if the given number is prime or not.

System.out.println(num + (isPrime ? " is a prime number." : " is not a prime number.));

System.out.println("Thank you!");
```

Once the program figures out if the number is prime or not, it will output the number with a message corresponding if it is prime or not.