Reflection Log PrimeNumber

```java
public static void main(String[] args) {
    Scanner scanner = new Scanner(System.in);
```

Initializing a scanner to read the users input information/values in the program.

```java
//prompt the user for a number
System.out.print("Please enter a number greater than 1: ");
int number = scanner.nextInt();

//check if the number is prime using the isPrime() method
boolean isPrimeNum = isPrime(number);
```

The code prompts the user to enter a number greater than 1, reads that number, and checks if it is prime using the isPrime() method.

```java
//display the result.
if (isPrimeNum) {
    System.out.println(number + " is a prime number.");
} else {
    System.out.println(number + " is not a prime number.");
}
```

The code checks the value of isPrimeNum to determine if the number is prime. If it is true, it displays a message stating that the number is a prime number; otherwise, it indicates that the number is not a prime number.

```java
//method to check if a number is prime
public static boolean isPrime(int num) {

    //a prime number is greater than 1
    if (num <= 1) {
        return false;
    }
```

The code defines a method named isPrime that checks if a number is prime. It begins by confirming that a prime number must be greater than 1, and if the input number is less than or equal to 1, it returns false, indicating that the number is not prime.

```java
    //check for factors from 2 to the square root of num
    for (int priNum = 2; priNum <= Math.sqrt(num); priNum++) {
        if (num % priNum == 0) {

            //not prime if evenly divisible.
            return false;
        }
    }
}
//it's prime if no factors were found
return true;
```

The code checks if the number num is less than or equal to 1, and if so, it returns false. This indicates that the number is not prime, as prime numbers must be greater than 1.