Computer Science I Lab 08I – PRIME NUMBERLab Value - 100

Lab Goal : This lab was designed to teach you how to use for loops and as a review of mod %.

Lab Description : Take any number and determine if it is prime. A prime number is only divisible by itself and 1. For instance, 7 is prime because it is only evenly divisible by 1 and 7 (itself). 8 is not prime because it has the divisors : 1,2,4,8

Sample Data :

```
24
7
100
113
65535
2
7334
7919
1115125003
```

Files Needed ::

```
Prime.java
Lab08i.java
```

Sample Output :

```
24 is not prime.

7 is prime.

100 is not prime.

113 is prime.

65535 is not prime.

2 is prime.

7334 is not prime.

7919 is prime.

1115125003 is not prime.
```

algorithm help

```
loop from 2 to square root of number
{
   if( number is evenly divisible by any
            number less than number )
   {
      //get here then number is not prime
   }
}
//made it this far then number is prime
```