

Assignment name: Pg 119 - E1 Mastery Project - PrimeNumber  
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## Reflection Log

Initializes Digit as 0, then Digit will be used to count the number of divisors

```
int Digit = 0;
```

A scanner object is created, it will prompt the user to enter a number, then it will be stored in Number

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

```
System.out.print("Enter a number:");
```

```
int Number = userInput.nextInt();
```

Use for loop to make a list of numbers from 1 to the users number to use as divisors. Then use the if statement, when the users chosen number is divisible by a divisor using modulo, Digit, increases by 1.

```
for (int i = 1; i<=Number; i+=1) {  
    if (Number % i == 0) {  
        Digit += 1;  
    } }  
}
```

Output "your number is prime" if Digit == 2, if anything else it will print "Your number isnt a prime number"

```
if (Digit == 2) {  
    System.out.print("Your number is a prime number");  
}  
else {  
    System.out.print("Your number isnt a prime number");  
}
```