

```
15         num = UserInput.nextInt();
16
17         while ( remainder != 0)
18         {
19             for (i=2; i<=7; i++)
20             {
21                 remainder = num%i;
22             }
23         }
24         if(remainder == 0)
25         {
26             System.out.print("The Number is Prime");
27         }
28         else
29         {
```

Problems Javadoc Declaration Console X Git Staging Debug

PrimeNumberA [Java Application] C:\Program Files\Eclipse\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.3.v20240426-1530\jre\bin\j

Please Enter a Number: 4

Logic Error (doesn't tell if number is prime or not).

```
System.out.print("Please Enter a Number");
num = UserInput.nextInt();

remainder = num%i;
do
{
    i=i+1;
}while(remainder != 0 && i<=7);
```

Changed the for and while loop to a do-while loop

```

num = userInput.nextLine();

remainder = num%i;
do
{
    i=i+1;
}while(remainder != 0 && i<=7);

if(remainder != 0 || num == i)
{
    System.out.print("The Number is Prime");
}
else
{
    System.out.print("The Number is NOT Prime");
}

}

```

Logic error

```

16
17     do
18     {
19         i=i+1;
20         remainder = num%i;
21     }while(remainder != 0 && i<=7);
22
23     if(remainder != 0 || num == i)
24     {
25         System.out.print("The Number is Prime");
26     }
27     else
28     {
29         System.out.print("The Number is NOT Prime");
30     }
31
32 }
33
34 }
35

```

Moved the remainder statement into the do-statement