

```

public class PrimeNumberCont {
    public Integer inputNumber { get; set; }
    public String result { get; set; }

    public void checkPrime() {
        if (inputNumber == null || inputNumber <= 1) {
            result = inputNumber + ' is NOT a Prime Number.';
            return;
        }

        Boolean isPrime = true;
        for (Integer i = 2; i <= Math.floor(Math.sqrt(Decimal.valueOf(inputNumber))); i++) {
            if (Math.mod(inputNumber, i) == 0) {
                isPrime = false;
                break;
            }
        }

        result = isPrime
            ? inputNumber + ' is a Prime Number.'
            : inputNumber + ' is NOT a Prime Number.';
    }
}

```

```
<apex:page controller="PrimeNumberCont">
  <apex:form>
    <apex:pageBlock title="Prime Number Checker">
      <apex:pageBlockSection>
        <apex:inputText value="{!inputNumber}" label="Enter a Number"/>
        <apex:commandButton value="Check" action="{!checkPrime}"
render="resultPanel"/>
      </apex:pageBlockSection>
      <apex:outputPanel id="resultPanel">
        <apex:outputText value="{!result}" style="font-weight:bold; color:blue;"
rendered="{!NOT(ISNULL(result))}"/>
      </apex:outputPanel>
    </apex:pageBlock>
  </apex:form>
</apex:page>
```

```
PrimeNumberCont p = new PrimeNumberCont();  
p.inputNumber = 29; // Change this to any number you want to test  
p.checkPrime();
```

```
System.debug(p.result);
```