Practical – 5

Write AngularJS filter to check whether the entered number in the textbox is prime or not.

CODE :

```html
<!DOCTYPE html>
<html lang="en" ng-app="primeApp">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <title>Practical 5</title>
  <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></script>
  <style>
    body {
      font-family: Arial;
    }
    input {
      padding: 5px;
      width: 150px;
    }
  </style>
</head>
<body ng-controller="primeController">
  <h2>Prime Number Checker</h2>
  Enter Number:
  <input type="number" ng-model="num" placeholder="enter number">
  <h3>Result: {{ num | primeFilter }}</h3>
  <script>
    var app = angular.module("primeApp", []);
    app.filter("primeFilter", function () {
      return function (number) {
        if (number === undefined || number < 2)
          return "Not Prime";
        for (let i = 2; i <= Math.sqrt(number); i++) {
          if (number % i === 0) {
            return "Not Prime";
          }
        }
        return "Prime Number";
      };
    });
```
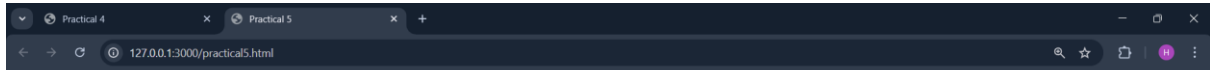
```
    app.controller("primeController", function ($scope) {
        $scope.num = 0;
    });
  </script>
</body>
</html>
```

OUTPUT :