Practical No. 8

Create code for the ng-init method.

Code: 1

```html
<!DOCTYPE html>
<html lang="en">

<head>
    <!-- Define the character set and viewport settings for the document -->
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <!-- Set the title of the document -->
    <title>AngularJS Example</title>
</head>

<body>
    <!-- AngularJS application initialization with ng-app and initial data setup with ng-init -->
    <div ng-app="" ng-init="firstName='Onkar'">
        <!-- Input field for entering the name, linked to the model 'firstName' -->
        <p>Name: <input type="text" ng-model="firstName"></p>

        <!-- Display the value entered in the input field using data binding -->
        <p>You wrote: {{ firstName }}</p>
    </div>

    <!-- Include the AngularJS library -->
    <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></script>
</body>

</html>
```
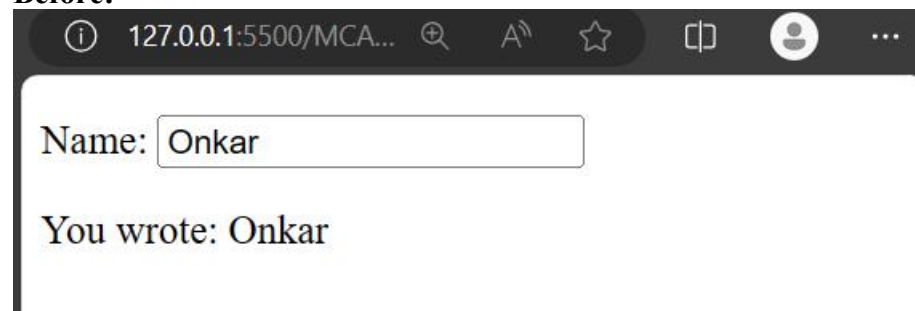
Before:

Name: Onkar

You wrote: Onkar

After:

Name: Uttam

You wrote: Uttam

Code: 2

```html
<!DOCTYPE html>
<html lang="en">

<head>
    <!-- Define the character set and viewport settings for the document -->
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <!-- Set the title of the document -->
    <title>AngularJS Example</title>
</head>

<body>
    <!-- AngularJS application initialization with ng-app and initial data setup with ng-init -->
    <div ng-app="" ng-init="quantity=1; price=5">
        <!-- Input field for entering the quantity, linked to the model 'quantity' -->
        Quantity: <input type="number" ng-model="quantity">
        <br>
        <!-- Input field for entering the price, linked to the model 'price' -->
        Costs:    <input type="number" ng-model="price">
        <br>
        <!-- Display the total cost in dollars using data binding -->
        Total in dollar: {{ quantity * price }}
    </div>

    <!-- Include the AngularJS library -->
    <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></script>
</body>

</html>
```
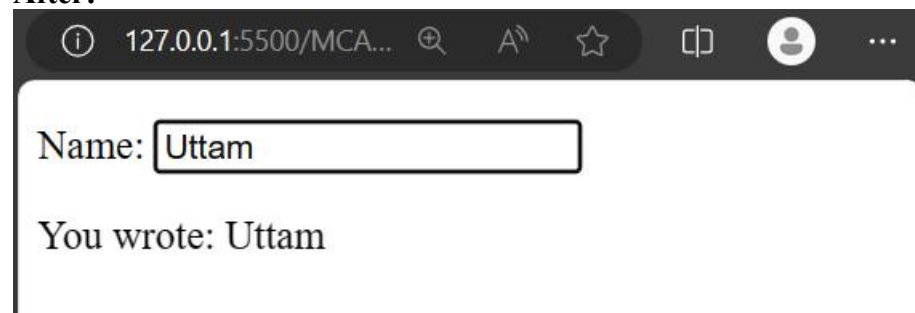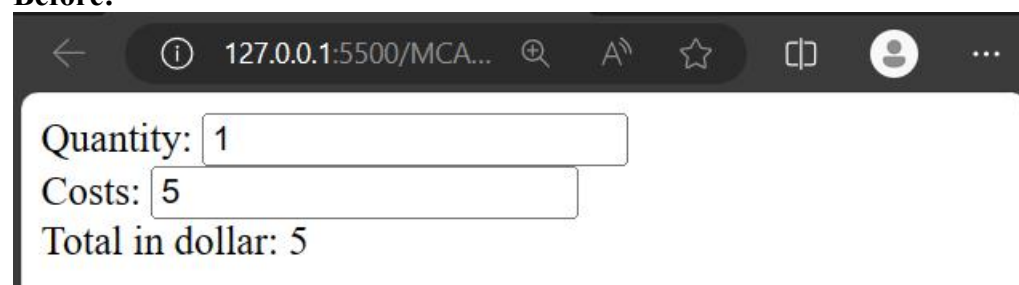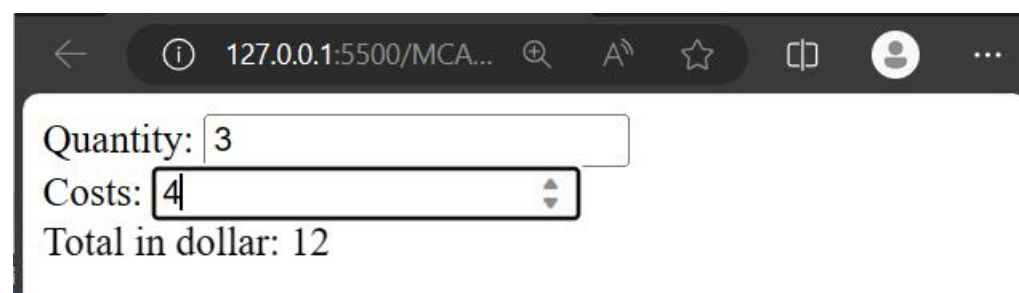
Before:

After:

Code: 3
```html
<!DOCTYPE html>
<html lang="en">
<head>
   <!-- Define the character set and viewport settings for the document -->
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <!-- Include the AngularJS library using a local file -->
   <script src="./angular.min.js"></script>
   <!-- Set the title of the document -->
   <title>AngularJS Example</title>
</head>
<body>
   <!-- AngularJS application initialization with ng-app and initial data setup with ng-init -->
   <div ng-app="" ng-init="Students=['Onkar','Aditya','Vishal','Ramesh','Suresh']">

      <!-- Display the first student's name using array indexing -->
      <h1>Name of the Students: {{Students[0]}}</h1>

      <!-- Iterate through the 'Students' array using ng-repeat and display each student's name -->
      <h1 ng-repeat="x in Students">Name:{{x}}</h1>

      <!-- Another way to display each student's name using ng-repeat -->
      <h1 ng-repeat="x in Students">Name of the Students: {{x}}</h1>
   </div>
</body>
</html>
```
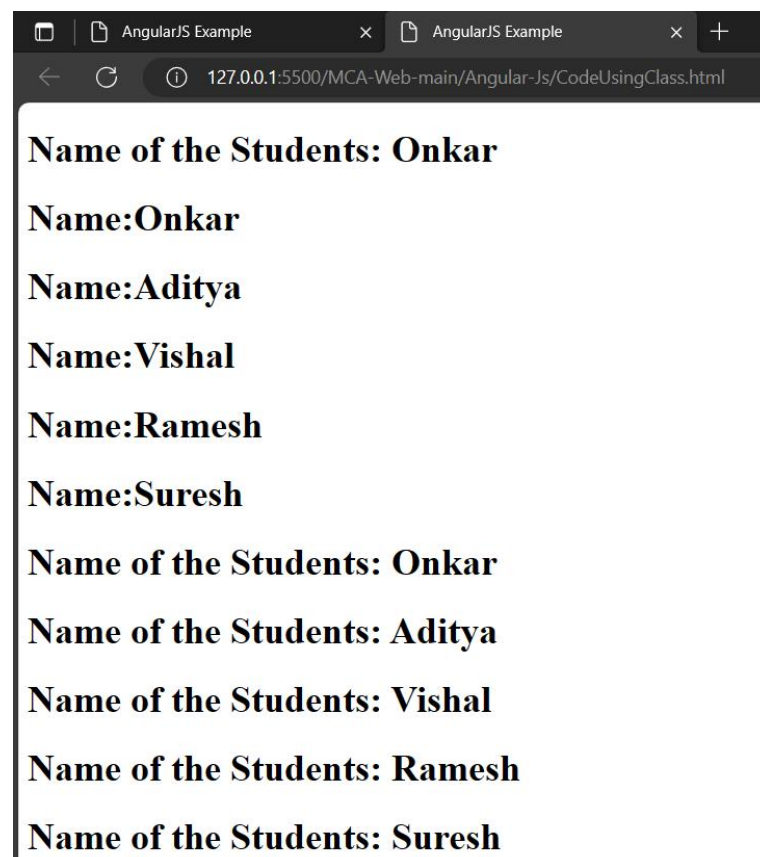
Output:

Name of the Students: Onkar

Name:Onkar

Name:Aditya

Name:Vishal

Name:Ramesh

Name:Suresh

Name of the Students: Onkar

Name of the Students: Aditya

Name of the Students: Vishal

Name of the Students: Ramesh

Name of the Students: Suresh

Example:

Create an application to demonstrate directives (calculate salary by talking first name, last name, hra,da,basic as a input)

Code:

```html
<!DOCTYPE html>
<html lang="en">

<head>
    <!-- Define the character set and viewport settings for the document -->
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <!-- Include the AngularJS library -->
    <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></script>

    <!-- Set the title of the document -->
    <title>AngularJS Directives Example</title>
</head>

<body>
    <!-- AngularJS application initialization with ng-app -->
    <div ng-app="salaryApp" ng-controller="salaryController">

        <!-- Input fields for entering employee details -->
        <label for="firstName">First Name:</label>
        <input type="text" ng-model="firstName"><br>

        <label for="lastName">Last Name:</label>
        <input type="text" ng-model="lastName"><br>

        <label for="hra">HRA (House Rent Allowance):</label>
        <input type="number" ng-model="hra"><br>

        <label for="da">DA (Dearness Allowance):</label>
        <input type="number" ng-model="da"><br>

        <label for="basic">Basic Salary:</label>
        <input type="number" ng-model="basic"><br>

        <!-- Display the calculated salary using directives -->
        <p>Full Name: {{fullName()}}</p>
        <p>Net Salary: {{calculateSalary()}}</p>
    </div>

    <!-- AngularJS script to define the module and controller -->
    <script>
        angular.module('salaryApp', [])
            .controller('salaryController', function ($scope) {
                // Function to calculate full name
                $scope.fullName = function () {
                    return $scope.firstName + ' ' + $scope.lastName;
```
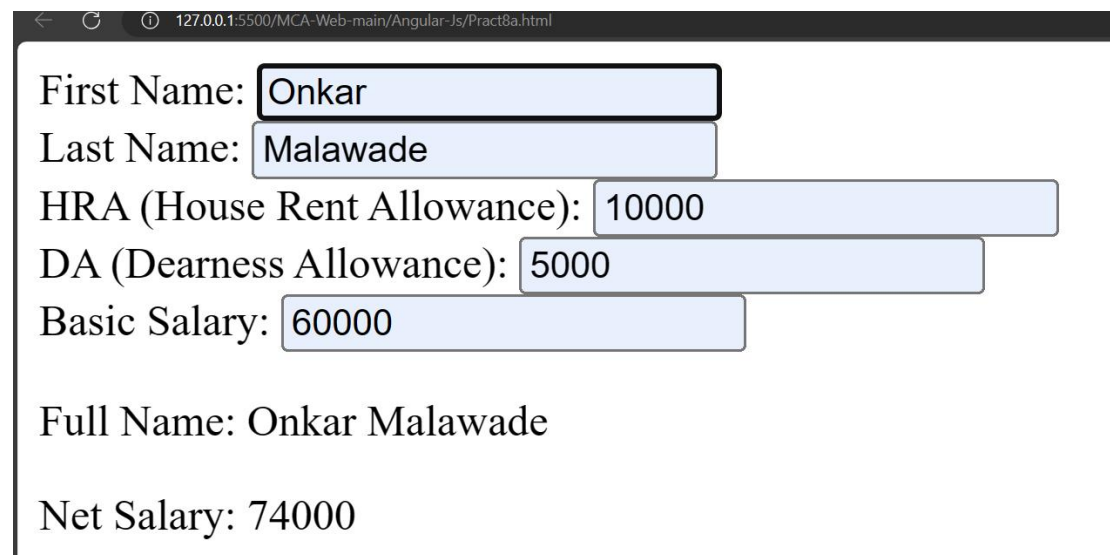
```
                };

        // Function to calculate net salary based on provided inputs
        $scope.calculateSalary = function () {
            // Assuming some fixed values for deductions, you can modify this based
on your actual calculations
            var deductions = 1000;

            // Calculating net salary
            return ($scope.basic + $scope.hra + $scope.da) - deductions;
        };
    });
    </script>
</body>

</html>
```

Output:

First Name: Onkar
Last Name: Malawade
HRA (House Rent Allowance): 10000
DA (Dearness Allowance): 5000
Basic Salary: 60000

Full Name: Onkar Malawade

Net Salary: 74000