

**Program 1**

**Develop Angular JS program that allows user to input their first name and last name and display their full name. Note: The default values for first name and last name may be included in the program.**

```
<!DOCTYPE html>
<html ng-app="myApp">
<head>
<title>Full Name Input with Default Values</title>
  <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></
script>
<style>
  body {
    font-family: sans-serif;
  }
  .container {
    margin: 20px;
    padding:
20px;
    border: 1px solid #ccc;
  }
  label {
    display: block;
    margin-bottom:
5px;
  }
  input {
    width: 100%;
    padding: 5px;
    border: 1px solid #ccc;
  }
  .fullName {
    font-weight: bold;
  }
</style>
</head>
<body>
```

```
<div class="container" ng-controller="myCtrl">
  <h2>Full Name Input with Default Values</h2>
  <label for="firstName">First Name:</label>
    <input type="text" ng-model="firstName" id="firstName"
placeholder="Enter your first name" value="John">

  <label for="lastName">Last Name:</label>
    <input type="text" ng-model="lastName" id="lastName"
placeholder="Enter your last name" value="Doe">

  <br>

  <span class="fullName">Full Name: {{ firstName + ' ' + lastName }}</span>
</div>

<script>

var app = angular.module('myApp', []);

app.controller('myCtrl', function($scope) {
  $scope.firstName = "John";
  $scope.lastName = "Doe";
});
</script>

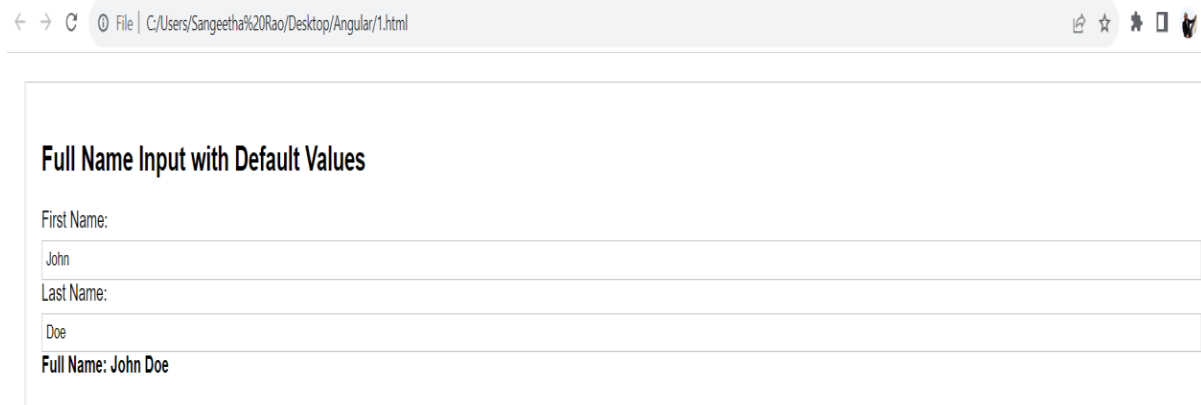
</body>

</html>
```

## Output:

### Execution Steps:

Step 1: Save the program with .html extension  
Step 2: Open the file using any browser



← → ↻ File | C:/Users/Sangeetha%20Rao/Desktop/Angular/1.html

### Full Name Input with Default Values

First Name:  
John

Last Name:  
Doe

Full Name: John Doe

## Program 2

**Develop an Angular JS application that displays a list of shopping items. Allow users to add and remove items from the list using directives and controllers. Note: The default values of items may be included in the program.**

```
<!DOCTYPE html>
<html ng-app="shoppingListApp">
<head>
<title>Shopping List</title>
  <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></
scr ipt>
<style>
  body {
    font-family: sans-serif;
  }
.container {
  margin: 20px;
  padding:
  20px;
  border: 1px solid #ccc;
  }
.shopping-list {
  list-style:
  none;
  padding: 0;
  margin: 0;
  }
.shopping-list li {
  margin-bottom:
  10px; padding: 5px;
  border: 1px solid #ccc;
  }
.shopping-list input {
  width: 80%;
  padding: 5px;
  border: 1px solid #ccc;
```

```
}
.shopping-list button {
padding: 5px 10px;
border: 1px solid #ccc;
cursor: pointer;
}
</style>
</head>
<body>
<div class="container" ng-controller="shoppingListCtrl">
<h1>Shopping List</h1>
<ul class="shopping-list">
<li ng-repeat="item in shoppingItems">
<input type="text" ng-model="item" placeholder="Enter item">
<button ng-click="removeItem(item)">Remove</button>
</li>
</ul>
<input type="text" ng-model="newItem" placeholder="Add new item">
<button ng-click="addItem()">Add</button>
</div>

<script>
var app = angular.module('shoppingListApp', []);

app.controller('shoppingListCtrl', function($scope) {
$scope.shoppingItems = ["Milk", "Bread", "Eggs"];

$scope.addItem = function() {
  if ($scope.newItem) {
    $scope.shoppingItems.push($scope.newItem);
    $scope.newItem = "";
  }
};

$scope.removeItem = function(item) {
  var index = $scope.shoppingItems.indexOf(item);
  if (index >= 0) {
    $scope.shoppingItems.splice(index, 1);
  }
}
```

```
};  
});  
</script>  
</body>  
</html>
```

### Output:

#### Execution Steps:

Step 1: Save the program with .html extension  
Step 2: Open the file using any browser



← → ↻ 127.0.0.1:5500/2.html

## Shopping List

Milk	Remove
Bread	Remove
Eggs	Remove

Add new item

### Program 3

**Develop a simple Angular JS calculator application that can perform basic mathematical operations (addition, subtraction, multiplication, division) based on user input.**

```
<!DOCTYPE html>
<html ng-app="calculatorApp">
<head>
<script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></
scr ipt>
<style>
body{
font-family: sans-serif;
}
.container {
margin: 110px;
padding:20px;
border: 20px;
}

.operator-button {
padding: 5px 10px;
border:3px solid green;
background-color:skyblue;
cursor:pointer;
}
</style>
</head>
<div class="container" ng-controller="calculatorController">
<div class="operator-button"
<h2>Simple Calculator</h2>
<input type="number" ng-model="num1" placeholder="Enter number 1" >
<input type="number" ng-model="num2" placeholder="Enter number 2">
<select class="operator-button" ng-model="operator">
<option value="+">Addition</option>
<option value="-">Subtraction</option>
<option value="*">Multiplication</option>
<option value="/">Division</option>
```

```
</select>
<button class="operator-button" ng-click="calculate()">Calculate</button>
<span class="result">Result: {{ result }}</span>
</div>
</div>
</html>
```

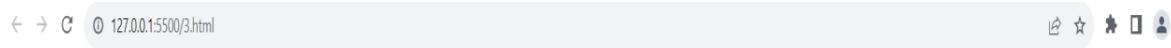
```
<script>
var app = angular.module('calculatorApp', []);
app.controller('calculatorController', function($scope) {
$scope.num1 = 0;
$scope.num2 = 0;
$scope.operator = '+';
$scope.result = 0;
$scope.calculate =
function() { if
($scope.operator === '+') {
$scope.result = $scope.num1 + $scope.num2;
} else if ($scope.operator === '-') {
$scope.result = $scope.num1 - $scope.num2;
} else if ($scope.operator === '*') {
$scope.result = $scope.num1 * $scope.num2;
} else if ($scope.operator ===
'/') { if ($scope.num2 === 0) {
$scope.result = 'Cannot divide by zero';
} else {
$scope.result = $scope.num1 / $scope.num2;
}
}
};
});
</script>
</body>
</html>
```



## Output:

### Execution Steps:

Step 1: Save the program with .html extension  
Step 2: Open the file using any browser

A screenshot of a simple calculator web application. It has a light blue background. On the left, it says "Simple Calculator". There are two input fields, both containing the number "0". Between them is a dropdown menu currently showing "Addition". To the right of the dropdown is a button labeled "Calculate". Further right, it says "Result: 0".

**Program 4**

**Write an Angular JS application that can calculate factorial and compute square based on given user input.**

```
<!DOCTYPE html>
<html ng-app="mathApp">
<head>
<title>Math Operations</title>
  <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></
scr ipt>
<style>
  body {
    font-family: sans-serif;
  }

.container {
  margin: 20px;
  padding:
20px;
  border: 1px solid #ccc;

}

.input-field {
  width: 100%;
  padding: 5px;
  border: 1px solid #ccc;

}

.button {
  padding: 5px 10px;
  border: 1px solid #ccc;
  cursor: pointer;

}

.result {
```

```
margin-top:
10px; font-
weight: bold;
```

```
}
</style>
```

```
</head>
```

```
<body>
```

```
<div class="container" ng-controller="mathCtrl">
```

```
<h2>Math Operations</h2>
```

```
<h3>Factorial</h3>
```

```
<input type="number" ng-model="number" class="input-field"
placeholder="Enter number">
```

```
<button class="button" ng-click="calculateFactorial()">Calculate
Factorial</button>
```

```
<span class="result">Factorial: {{ factorialResult }}</span>
```

```
<h3>Square</h3>
```

```
<input type="number" ng-model="number2" class="input-field"
placeholder="Enter number">
```

```
<button class="button" ng-click="calculateSquare()">Calculate
Square</button>
```

```
<span class="result">Square: {{ squareResult }}</span>
```

```
</div>
```

```
<script>
```

```
var app = angular.module('mathApp', []);
```

```
app.controller('mathCtrl', function($scope) {
```

```
$scope.number = 0;
```

```
$scope.factorialResult = 0;
```

```
$scope.number2 = 0;
```

```
$scope.squareResult = 0;
```

```
$scope.calculateFactorial = function() {
```

```
if ($scope.number < 0) {
```

```
alert("Invalid input. Please enter a non-negative number.");
```

```
return;
```

```
}
```

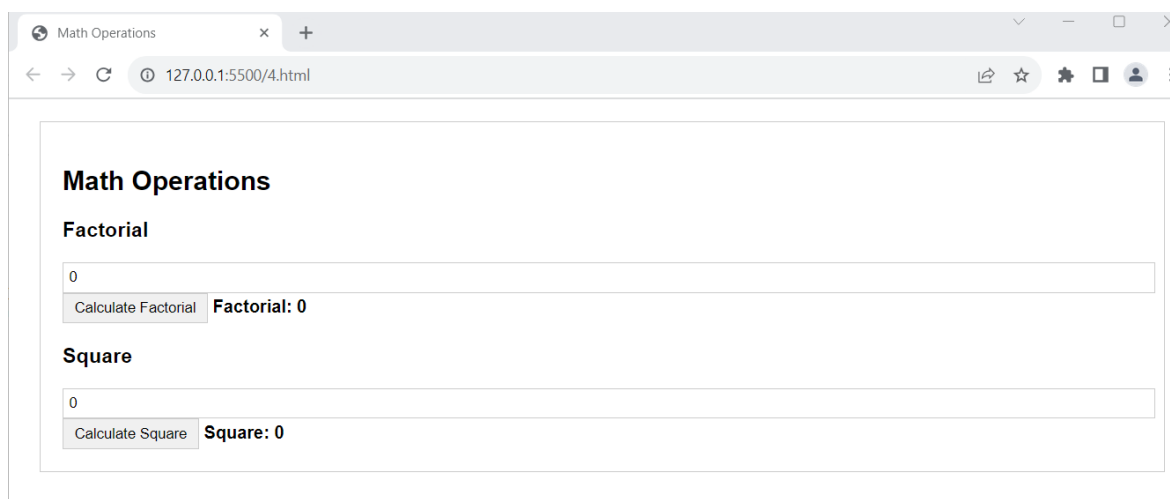
```
$scope.factorialResult = 1;
```

```
for (var i = $scope.number; i > 1; i--) {  
  $scope.factorialResult *= i;  
}  
};  
  
$scope.calculateSquare = function() {  
  $scope.squareResult = $scope.number2 * $scope.number2;  
};  
});  
</script>  
</body>  
</html>
```

### Output:

#### Execution Steps:

Step 1: Save the program with .html extension  
Step 2: Open the file using any browser



## Program 5

**Develop AngularJS application that displays a detail of students and their CGPA. Allow users to read the number of students and display the count. Note: Student details may be included in the program.**

```
<!DOCTYPE html>
<html ng-app="studentApp">
<head>
<title>Student Details</title>
  <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></
scr ipt>
<style>
  body {
    font-family: sans-serif;
  }

.container {
  margin: 20px;
  padding:
20px;
  border: 1px solid #ccc;
}

table {
  width: 100%;
  border-collapse: collapse;
}

th, td {
  border: 1px solid #ddd;
  padding: 5px;
  text-align: center;
}

th {
  background-color: #f2f2f2;
}
</style>
</head>
```

```
<body>
<div class="container" ng-controller="studentCtrl">
<h2>Student Details</h2>

<table>
<thead>
<tr>
<th>Name</th>
<th>CGPA</th>
</tr>
</thead>
<tbody>
<tr ng-repeat="student in students">
<td>{{ student.name }}</td>
<td>{{ student.cgpa }}</td>
</tr>
</tbody>
</table>

<p>Number of Students: {{ students.length }}</p>
</div>

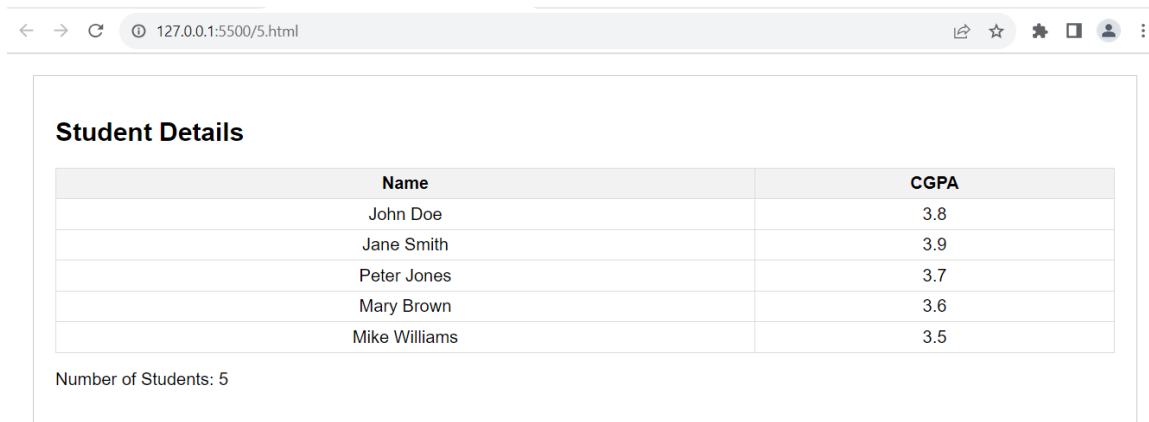
<script>
var app = angular.module('studentApp', []);

app.controller('studentCtrl', function($scope) {
$scope.students = [
{ name: "John Doe", cgpa: 3.8 },
{ name: "Jane Smith", cgpa: 3.9 },
{ name: "Peter Jones", cgpa: 3.7 },
{ name: "Mary Brown", cgpa: 3.6 },
{ name: "Mike Williams", cgpa: 3.5 },
];
});
</script>
</body>
</html>
```

## Output:

### Execution Steps:

Step 1: Save the program with .html extension  
Step 2: Open the file using any browser



The screenshot shows a web browser window with the address bar displaying '127.0.0.1:5500/5.html'. The page content is titled 'Student Details' and features a table with two columns: 'Name' and 'CGPA'. The table lists five students: John Doe (3.8), Jane Smith (3.9), Peter Jones (3.7), Mary Brown (3.6), and Mike Williams (3.5). Below the table, it states 'Number of Students: 5'.

Name	CGPA
John Doe	3.8
Jane Smith	3.9
Peter Jones	3.7
Mary Brown	3.6
Mike Williams	3.5

Number of Students: 5

**Program 6**

**Develop an AngularJS program to create a simple to-do list application. Allow users to add, edit, and delete tasks.**

**Note: The default values for tasks may be included in the program.**

```
<!DOCTYPE html>
<html ng-app="todoListApp">
<head>
<title>To-Do List</title>
  <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></script>
<style> body {
  font-family: sans-serif;
}

.container { margin: 20px;
padding: 20px;
border: 1px solid #ccc;
}

.task-list {
list-style: none; padding:
0;
margin: 0;
}

.task-list li {
margin-bottom: 10px; padding: 5px;
border: 1px solid #ccc;
}

.task-list input { width:
100%; padding: 5px;
border: 1px solid #ccc;
}

.task-list .edit-button { padding:
5px 10px; border: 1px solid #ccc;
cursor: pointer; margin-right:
10px;
}
```



```
.task-list .delete-button { padding:
5px 10px; border: 1px solid #ccc;
cursor: pointer;
}
</style>
</head>
<body>
<div class="container" ng-controller="todoListCtrl">
<h2>To-Do List</h2>

<input type="text" ng-model="newTask" placeholder="Enter new task">
<button ng-click="addTask()">Add Task</button>
<br>

<ul class="task-list">
<li ng-repeat="task in tasks">
<input type="checkbox" ng-model="task.done">
{{ task.text }}
<button class="edit-button" ng-click="editTask(task)">Edit</button>
<button class="delete-button"
ng-click="deleteTask(task)">Delete</button>
</li>
</ul>

<div ng-show="editingTask">
<input type="text" ng-model="editingTask.text" placeholder="Edit task">
<button ng-click="saveTask(editingTask)">Save</button>
<button ng-click="cancelEdit()">Cancel</button>
</div>
</div>

<script>
var app = angular.module('todoListApp', []); app.controller('todoListCtrl',

function($scope) {

$scope.tasks = [
{ text: "Buy groceries", done: false },
{ text: "Finish homework", done: false },
{ text: "Call doctor", done: false },
];
```

```
$scope.editingTask = null;

$scope.addTask = function() { if
($scope.newTask) {
  $scope.tasks.push({ text: $scope.newTask, done: false });
  $scope.newTask = "";
}
};

$scope.editTask = function(task) {
  $scope.editingTask = angular.copy(task);
};

$scope.saveTask = function(task) {
for (var i = 0; i < $scope.tasks.length; i++) { if
($scope.tasks[i].id === task.id) {
  $scope.tasks[i].text = task.text; break;
}
}
$scope.editingTask = null;
};

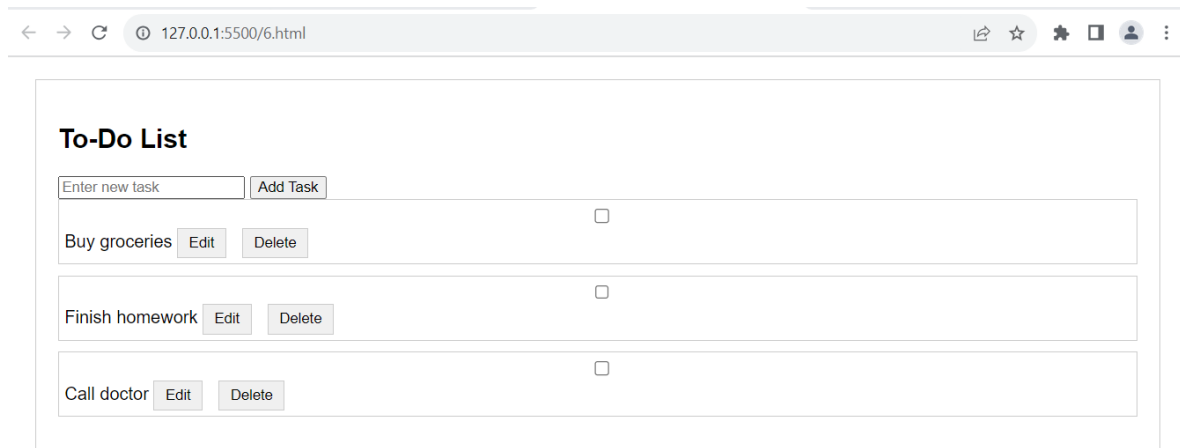
$scope.cancelEdit = function() {
  $scope.editingTask = null;
};

$scope.deleteTask = function(task) {
  var index = $scope.tasks.indexOf(task); if (index >=
0) {
    $scope.tasks.splice(index, 1);
  }
};
});
</script>
```

## Output:

### Execution Steps:

Step 1: Save the program with .html extension Step 2:  
Open the file using any browser



## Program 7

**Write an AngularJS program to create a simple CRUD application (Create, Read, Update, and Delete) for managing users.**

```
<!DOCTYPE html>
<html ng-app="crudApp">
<head>
<title>AngularJS CRUD Application</title>

<script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js">
</script>

<style>
#userList {
width: 600px;
margin: auto;
border: 1px solid #ccc;
border-radius: 5px;
padding: 20px;
margin-top: 20px;
}

table {
width: 100%;
border-collapse: collapse;
margin-top: 10px;
}
th, td {
border: 1px solid #ddd;
padding: 8px;
text-align: left;
}

button {
background-color: #dc3545;
color: #fff;
border: none;
padding: 5px 10px;
```

---

```

border-radius: 3px;
cursor: pointer;
}
</style>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js">
</script>

</head>
<body>

<div ng-controller="crudCtrl" id="userList">
<h2>Users List</h2>

<form ng-submit="addUser()">

<label for="userName">Name:</label>
<input type="text" id="userName" ng-model="newUser.name" required>

<label for="userEmail">Email:</label>
<input type="email" id="userEmail" ng-model="newUser.email" required>

<button type="submit">Add User</button>
</form>

<table ng-show="users.length > 0">
<tr>
<th>Name</th>
<th>Email</th>
<th>Actions</th>
</tr>
<tr ng-repeat="user in users">
<td>{{ user.name }}</td>
<td>{{ user.email }}</td>
<td>
<button ng-click="editUser(user)">Edit</button>
<button ng-click="deleteUser(user)">Delete</button>
</td>
</tr>
</table>
</div>

```

```
<script>
var app = angular.module('crudApp', []);
app.controller('crudCtrl', function ($scope) {
$scope.users = [
{ name: 'John', email: 'John@gmail.com' },
{ name: 'Smith', email: 'Smith@gmail.com' }
];
$scope.newUser = { };

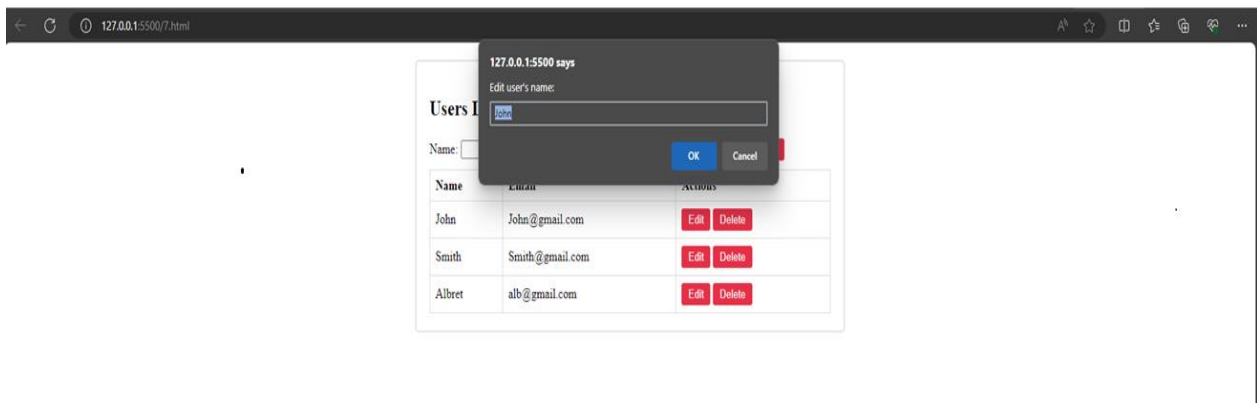
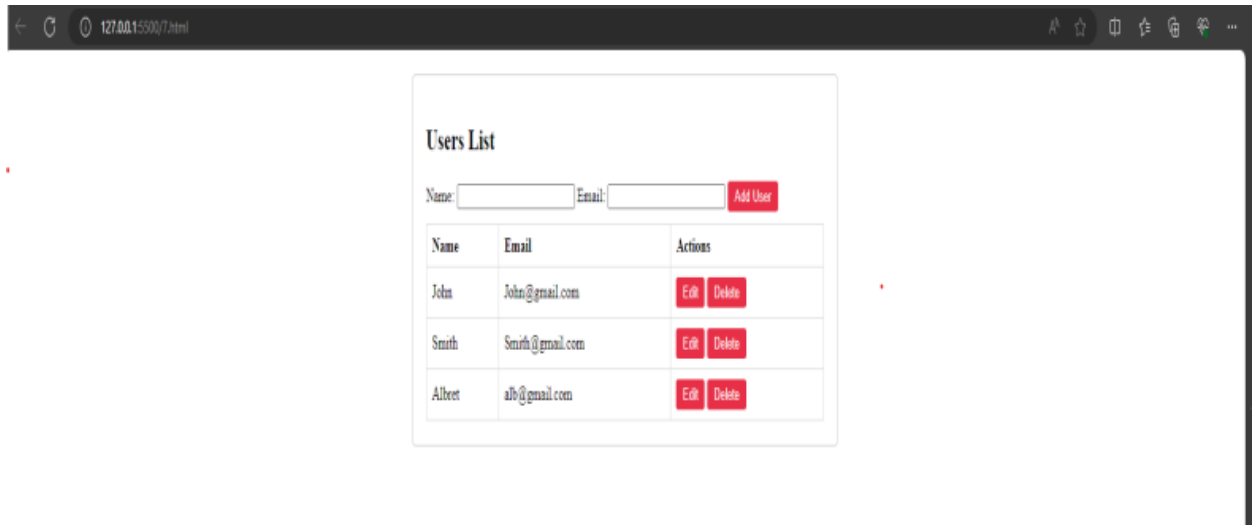
$scope.addUser = function () {
if ($scope.newUser.name && $scope.newUser.email) {
$scope.users.push(angular.copy($scope.newUser));
$scope.newUser = { };
}
};
$scope.editUser = function (user) {
var editedName = prompt("Edit user's name:", user.name);
var editedEmail = prompt("Edit user's email:", user.email);
if (editedName !== null && editedEmail !== null) {
user.name = editedName;
user.email = editedEmail;
}
};
$scope.deleteUser = function (user){
var index = $scope.users.indexOf(user);
$scope.users.splice(index, 1);
};
});
</script>
</body>
</html>
```

## Output:

### Execution Steps:

Step 1: Save the program with .html extension

Step 2: Open the file using any browser



## Program 8

**Develop AngularJS program to create a login form, with validation for the username and password fields.**

```
<!DOCTYPE html>
<html>
<head>
<title>Login Form with Validation</title>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js">
</script>
</head>
<body ng-app="myApp">

  <div ng-controller="LoginController">

    <h2>Login Form with Validation</h2>

    <form name="loginForm" novalidate>

      <label>Username:</label>

      <input type="text" ng-model="user.username" name="username" required>

      <span ng-show="loginForm.username.$error.required && loginForm.username.$dirty"> Username is required.</span>

      <br>
      <br>

      <label>Password :</label>

      <input type="password" ng-model="user.password" name="password"
ng-pattern="/^(?=.*[A-Za-z])(?=.*\d)[A-Za-z\d]{8,}$/" required>

      <span ng-show = "loginForm.password.$error.required &&
loginForm.password.$dirty"> Password is required.</span>

      <span ng-show="loginForm.password.$error.pattern &&
loginForm.password.$dirty">
```



Password must be alphanumeric and at least 8 characters long.

```
</span>
<br>
<br>
<button ng-click="login()" ng-disabled="loginForm.$invalid">Login</button>
<br>

<br>
WELCOME TO CEC!!!
</form>
<div ng-show="isLoggedIn">
<p>Login successful! Welcome, {{ user.username }}!</p>
</div>
</div>
<script>
var app = angular.module('myApp', []);
  app.controller('LoginController', function ($scope) {
    $scope.user = { username: "", password: "" };
    $scope.isLoggedIn = false;
    $scope.login = function () {
      $scope.isLoggedIn = true;
    };
  });
</script>
</body>
</html>
```

### Output:

#### Execution Steps:

Step 1: Save the program with .html extension

Step 2: Open the file using any browser

### Login Form with Validation

Username:

Password :

WELCOME TO CEC!!!

## Program 9

**Create an AngularJS application that displays a list of employees and their salaries. Allow users to search for employees by name and salary. Note: Employee details may be included in the program.**

```
<!DOCTYPE html>
<html ng-app="employeeApp">

<head>
  <title>Employee Management</title>
  <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></script>
</head>

<body ng-controller="employeeController">

  <h2>Employee Management</h2>

  <label for="searchName">Search by Name:</label>
  <input type="text" id="searchName" ng-model="searchName">

  <label for="searchSalary">Search by Salary:</label>
  <input type="number" id="searchSalary" ng-model="searchSalary">

  <table>
    <tr>
      <th>Name</th>
      <th>Salary</th>
    </tr>
    <tr ng-repeat="employee in employees | filter: { name: searchName, salary:
searchSalary }">
      <td>{{ employee.name }}</td>
      <td>{{ employee.salary | currency }}</td>
    </tr>
  </table>
```

```
<script>
  var app = angular.module('employeeApp', []);
  app.controller('employeeController', function ($scope) {
    $scope.employees = [
      { name: 'John Doe', salary: 50000 },
      { name: 'Jane Smith', salary: 60000 },
      { name: 'Bob Johnson', salary: 55000 },
      { name: 'Alice Williams', salary: 70000 },
      // Add more employees as needed
    ];
  });
</script>

</body>

</html>
```

### Output:

#### Execution Steps:

Step 1: Save the program with .html extension

Step 2: Open the file using any browser



## Program 10

**Create AngularJS application that allows users to maintain a collection of items. The application should display the current total number of items, and this count should automatically update as items are added or removed. Users should be able to add items to the collection and remove them as needed.**

**Note: The default values for items may be included in the program**

```
<!DOCTYPE html>
<html>
<head>
<title>Item Collection Management</title>
<script      src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js">
</script>
</head>
<body ng-app="myApp">
<div ng-controller="ItemController">
<h2>Item Collection</h2>
<p>Total number of items: {{ items.length }}</p>
<ul>
<li ng-repeat="item in items">
  {{ item.name }}
  <button ng-click="removeItem(item)">Remove</button>
</li>
</ul>
<div>
<label>New Item: </label>
<input type="text" ng-model="newItemName">
<button ng-click="addItem()">Add Item</button>
</div>
</div>
<script>
var app = angular.module('myApp', []);
app.controller('ItemController', function ($scope) {
  // Default items
  $scope.items = [
    { name: 'Apple'},
    { name: 'Banana'},
    { name: 'Orange'}];
  $scope.newItemName = "";
  $scope.addItem = function () {
```

```
if ($scope.newItemName) {  
  $scope.items.push({ name: $scope.newItemName });  
  $scope.newItemName = "";  
}  
};  
$scope.removeItem = function (item) {  
  var index = $scope.items.indexOf(item);  
  if (index !== -1) {  
    $scope.items.splice(index, 1);  
  }  
};  
});  
</script>  
</body>  
</html>
```

## Output:

### Execution Steps:

Step 1: Save the program with .html extension

Step 2: Open the file using any browser



## Program 11

**Create AngularJS application to convert student details to Uppercase using angular filters.**

**Note: The default details of students may be included in the program**

```
<!DOCTYPE html>
<html ng-app="studentApp">
<head>
  <title>AngularJS Student Details</title>
  <style>
    #studentDetails {
      width: 400px;
      margin: auto;
      border: 1px solid #ccc;
      border-radius: 5px;
      padding: 20px;
      margin-top: 20px;
      text-align: center;
    }

    input {
      width: 100%;
      margin-bottom: 10px;
      padding: 5px;
    }
  </style>
  <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></script>
</head>
<body>

<div ng-controller="studentCtrl" id="studentDetails">
  <h2>Student Details</h2>

  <label for="studentName">Name:</label>
  <input type="text" id="studentName" ng-model="student.name" required>

  <label for="studentBranch">Branch:</label>
  <input type="text" id="studentBranch" ng-model="student.branch" required>

  <p>Uppercase Name: {{ student.name | uppercase }}</p>
  <p>Uppercase Branch: {{ student.branch | uppercase }}</p>
```

```
</div>
```

```
<script>
```

```
var app = angular.module('studentApp', []);
```

```
app.controller('studentCtrl', function ($scope) {
```

```
  $scope.student = {
```

```
    name: 'John Doe',
```

```
    branch: 'Computer Science'
```

```
  };
```

```
});
```

```
</script>
```

```
</body>
```

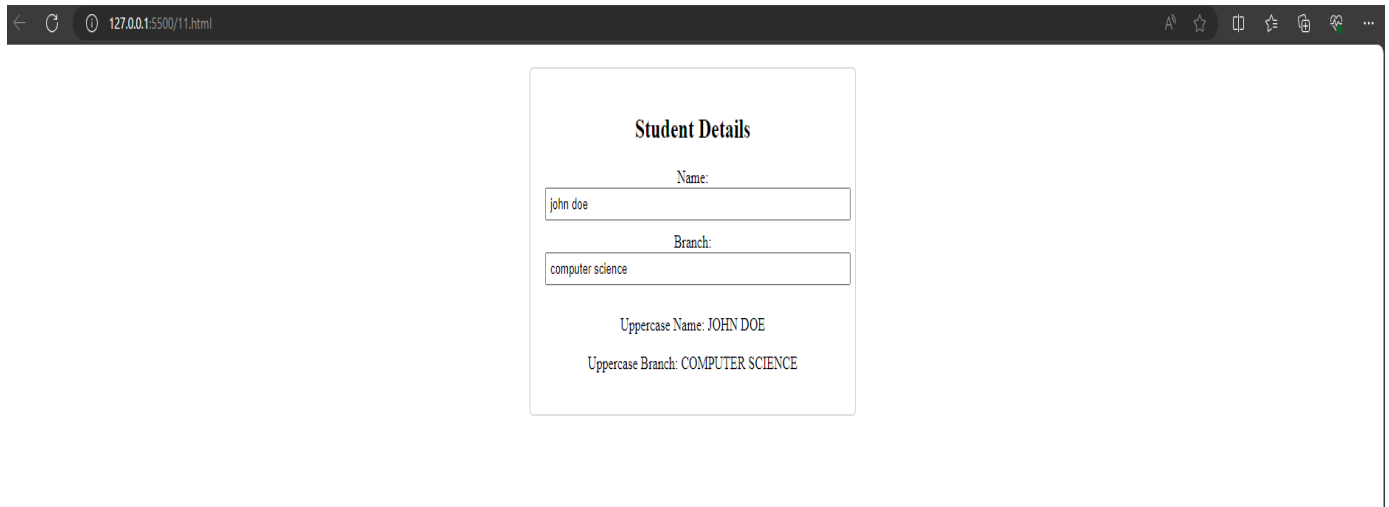
```
</html>
```

## Output:

### Execution Steps:

Step 1: Save the program with .html extension

Step 2: Open the file using any browser



## Program 12

**Create an AngularJS application that displays the date by using date filter parameters**

```
<!DOCTYPE html>
<html ng-app="dateApp">
<head>
  <title>AngularJS Date Display</title>

  <style>
    #dateDisplay {
      width: 400px;
      margin: auto;
      border: 1px solid #ccc;
      border-radius: 5px;
      padding: 20px;
      margin-top: 20px;
      text-align: center;
    }
  </style>

  <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js">
</script>

</head>

<body>

  <div ng-controller="dateCtrl" id="dateDisplay">
    <h2>Date Display</h2>

    <p>Default Format: {{ currentDate | date }}</p>
    <p>Custom Format: {{ currentDate | date:'fullDate' }}</p>
    <p>Short Format: {{ currentDate | date:'short' }}</p>
    <p>Custom Format (MM/dd/yyyy): {{ currentDate | date:'MM/dd/yyyy' }}</p>
  </div>

  <script>
    var app = angular.module('dateApp', []);

    app.controller('dateCtrl', function ($scope) {
      $scope.currentDate = new Date();
    });
  </script>
</body>
</html>
```



```
});  
</script>  
  
</body>  
</html>
```

## Output:

### Execution

#### Steps:

Step 1: Save the program with .html extension

Step 2: Open the file using any browser

