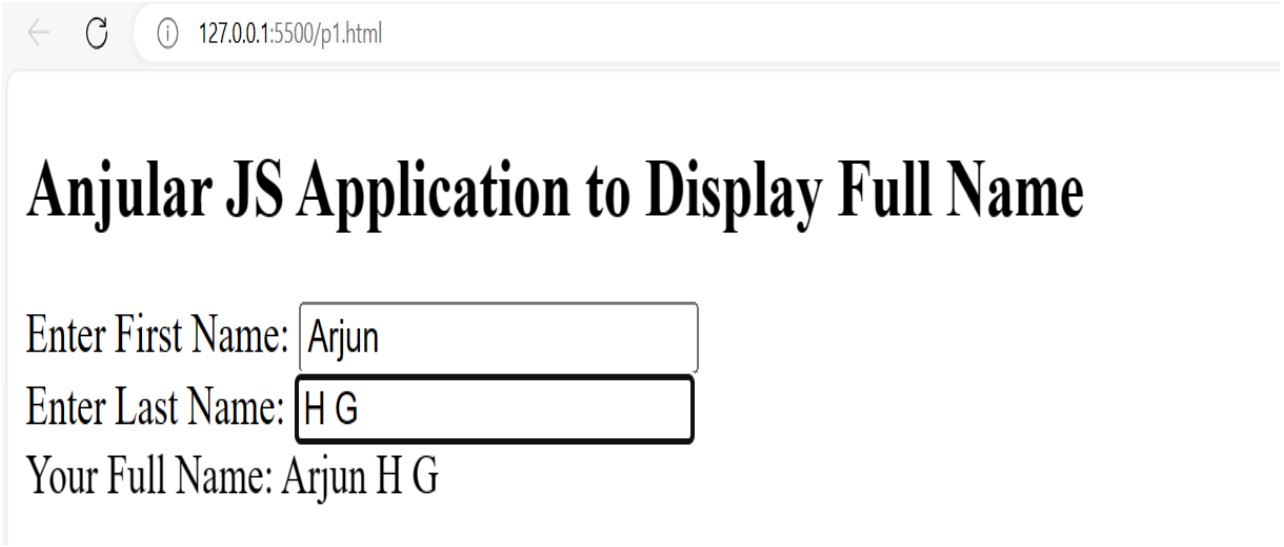
1.Develop Angular JS program that allows user to input their first name and last name and display their full name. Note: The default values for first name and last name may be included in the program.

```
<!DOCTYPE html>
<html>
<title>
    Angular JS Full Name Pgm
</title>
<head>
    <script type="text/javascript"
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min
.js">
</script>
<script>
    var app=angular.module("myApp",[]);
    app.controller("myCntrl",function($scope){
        $scope.firstName="Arjun"
        $scope.lastName="H G"
    });
</script>
</head>
<body ng-app="myApp">
    <h2>Anjular JS Application to Display Full Name</h2>
    <div ng-controller="myCntrl">
        Enter First Name: <input type="text" ng-
```

```
model="firstName"><br/>
        Enter Last Name: <input type="text" ng-
model="lastName"><br/>
        Your Full Name: {{firstName +" "+ lastName}}
    </div>
</body>
</html>
```

Output:



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>
<title>
Shopping Items Application
</title>
<head>
```

```
<script type="text/javascript"
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min
.js">
</script>
<script>
var app=angular.module("myApp",[]);
app.controller("myCntrl",function($scope){
$scope.shoppingItems=['Apple','Mango','Banana','Grapes']
$scope.addItem=function(){
if($scope.newItem &&
$scope.shoppingItems.indexOf($scope.newItem)==-1)
{
$scope.shoppingItems.push($scope.newItem)
$scope.newItem=""
}
else
{
if($scope.newItem)
alert("This item is already there in the shopping list")
else
alert("Please enter an item to add")
}
}
$scope.removeItem=function()
{
//console.log("function called")
if($scope.shoppingItems.indexOf($scope.selectItem)==-1)
{
alert("Please select an item to remove")
}
else
{
var index=$scope.shoppingItems.indexOf($scope.selectItem)
$scope.shoppingItems.splice(index,1)
$scope.selectItem=""
}
}
});
</script>
```

```
</head>
<body ng-app="myApp">
<div ng-controller="myCntrl">
<h2>Shopping Application</h2>
<h4>List of Shopping Items</h4>
<table border="1">
<tr>
<th>SLNO</th>
<th>Item</th>
</tr>
<tr ng-repeat="items in shoppingItems">
<td>{{$index+1}}</td>
<td>{{items}}</td>
</tr>
</table>
<br/>
<div>
   Enter an Item to Add: <input type="text" ng-model="newItem">
   <button ng-click="addItem()">Add Item</button>
   </div>
  <div>
   Select an Item to Remove:
   <select ng-model="selectItem" ng-options="item for item in
shoppingItems"></select>
   <button ng-click="removeItem()">Remove Item</button>
   </div>
   </div>
   </body>
   </html>
```

Output:

127.0.0.1:5500/p2.html

Shopping Application

List of Shopping Items

SLNO	Item
1	Apple
2	Mango
3	Banana
4	Grapes

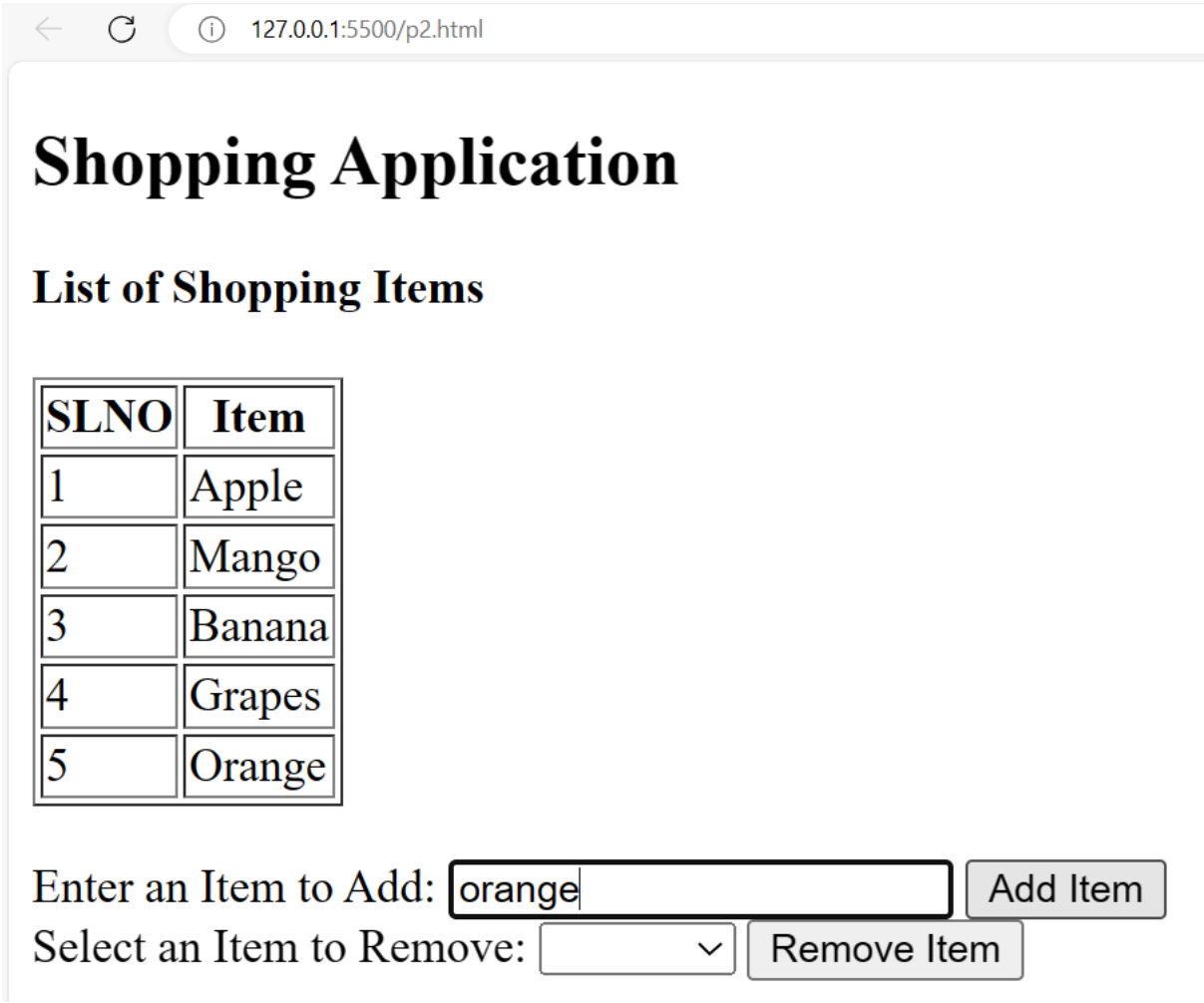
Enter an Item to Add: Add Item
Select an Item to Remove: Remove Item

Shopping Application

List of Shopping Items

SLNO	Item
1	Apple
2	Mango
3	Banana
4	Grapes
5	Orange

Enter an Item to Add: Add Item
Select an Item to Remove: Remove Item


127.0.0.1:5500/p2.html
Shopping Application
List of Shopping Items
SLNO
Item
1
Apple
2
Mango
3
Banana
4
Grapes
5
Orange
Enter an Item to Add:
orange
Add Item
Select an Item to Remove:
Remove Item

127.0.0.1:5500/p2.html

Shopping Application

List of Shopping Items

SLNO	Item
1	Apple
2	Mango
3	Banana
4	Grapes
5	Orange

Enter an Item to Add: Add Item

Select an Item to Remove: Orange Remove Item

127.0.0.1:5500/p2.html

Shopping Application

List of Shopping Items

SLNO	Item
1	Apple
2	Mango
3	Banana
4	Grapes

Enter an Item to Add: Add Item

Select an Item to Remove: Remove Item

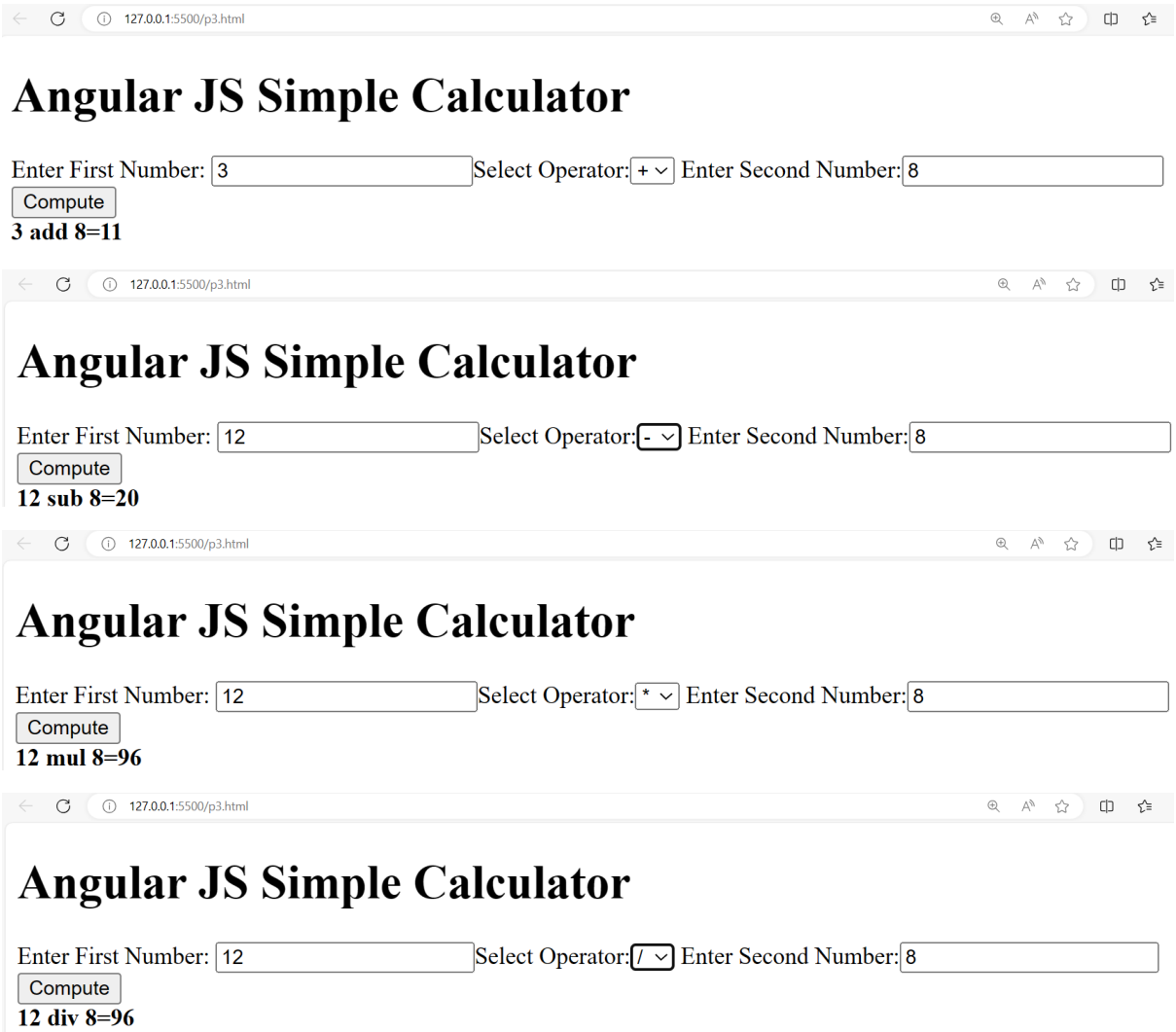
3.Develop a simple Angular JS calculator application that can perform basic mathematical operations (addition, subtraction, multiplication, division) based on user input.

```
<!DOCTYPE html>
<html>
<title>
AJS Simple Calculator
</title>
<head>
<script type="text/javascript"
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.mi
n.js">
</script>
<script>
var app=angular.module("calcApp",[]);
app.controller("calcCntrl",function($scope)
{
$scope.num1=0
$scope.num2=0
$scope.result=0
$scope.operator="add"
$scope.compute=function()
{
switch($scope.operator)
{
case 'add': $scope.result=$scope.num1 + $scope.num2
```

```
break
case 'sub': $scope.result=$scope.num1 - $scope.num2
break
case 'mul': $scope.result=$scope.num1 * $scope.num2
break
case 'div': if($scope.num2==0)
{
alert("Divide by zero error")
}
else
{
$scope.result=$scope.num1/$scope.num2
}}
}});
</script>
</head>
<body ng-app="calcApp">
<h1>Angular JS Simple Calculator</h1>
<div ng-controller="calcCntrl">
Enter First Number: <input type="number" ng-model="num1">Select
Operator:<select ng-model="operator">
<option value="add">+</option>
<option value="sub">-</option>
<option value="mul">*</option>
<option value="div">/</option>
</select>
```

```
Enter Second Number:<input type="number" ng-model="num2">
<button ng-click="compute()">Compute</button>
<br/>
<b>{{num1 + " "+operator+ " "+ num2+ "="+result}}</b>
</div>
</body>
</html>
```

Output:



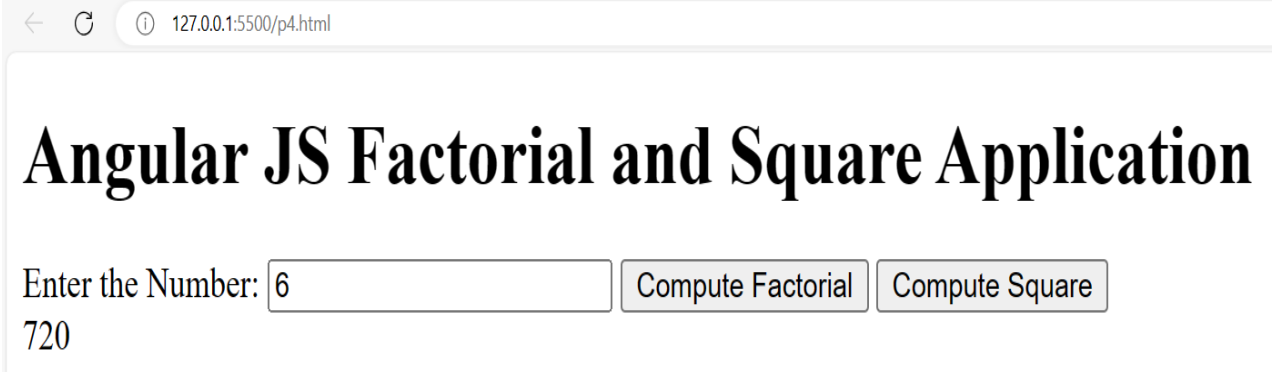
4. Write an Angular JS application that can calculate factorial and compute square based on given user input.

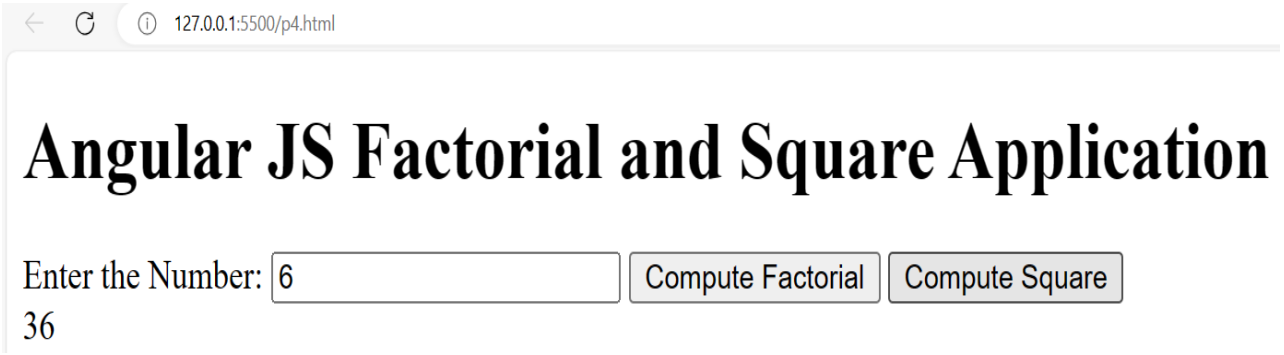
```
<!DOCTYPE html>
```

```
<html>
<title>
AJS Square and Factorial Application
</title>
<head>
<script type="text/javascript"
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min
.js">
</script>
<script>
var app=angular.module("mySqFct", []);
app.controller("mySqFctCntrl", function($scope){
$scope.num=0
$scope.result
$scope.factorial=function()
{
if($scope.num==0)
{
$scope.result=1
}
else{
$scope.fact=1
for(var i=$scope.num; i>=1; i--)
{
$scope.fact=$scope.fact*i
}
```

```
$scope.result=$scope.fact
}
}
$scope.square=function(){
$scope.result=$scope.num*$scope.num
}
});
</script>
</head>
<body ng-app="mySqFct">
<h1> Angular JS Factorial and Square Application</h1>
<div ng-controller="mySqFctCntrl">
Enter the Number: <input type="number" ng-model="num">
<button ng-click="factorial()">Compute Factorial</button>
<button ng-click="square()">Compute Square</button>
<br/>
{{result}}
</div>
</body>
</html>
```

Output:





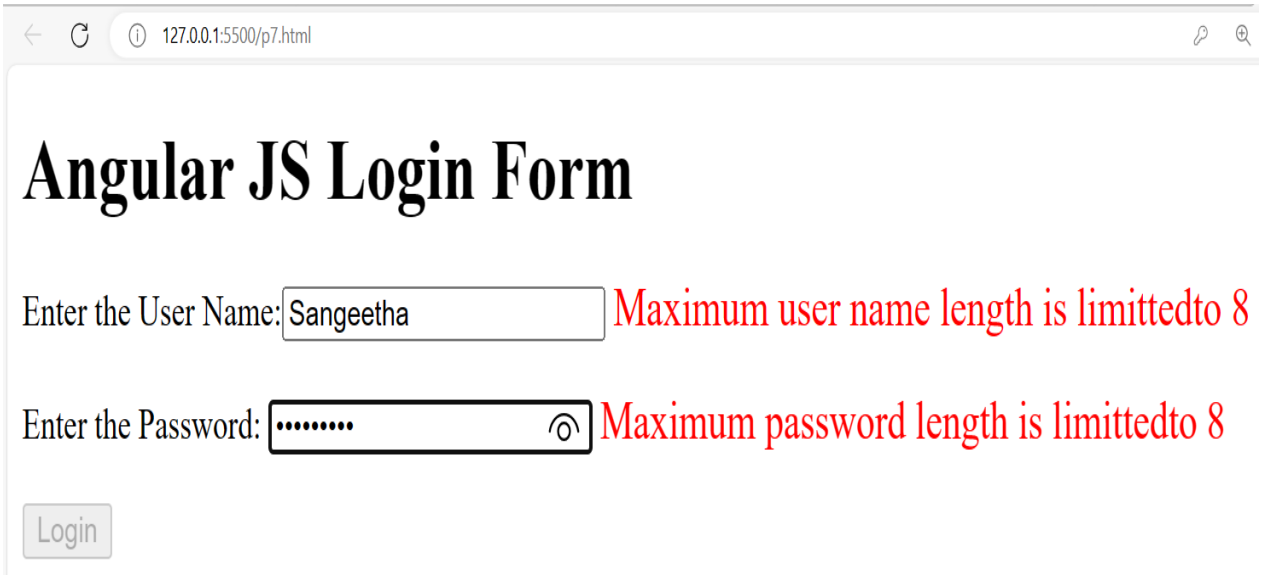
8. Develop AngularJS program to create a login form, with validation for the username and password fields.

```
<!DOCTYPE html>
<html>
<title>Angular JS Login Form</title>
<head>
<script type="text/javascript"
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min
.js">
</script>
<script>
var app=angular.module("loginApp",[]);
app.controller('loginAppCntrl',function($scope){
$scope.userName="
$scope.password="

$scope.noAttempts=0
$scope.login=function(){
// console.log("Inside login function")

if($scope.userName=="harish" &&
$scope.password=="12345678")
{
alert("Login Successfull")
}
else{
$scope.noAttempts++
if($scope.noAttempts<=3)
{
```

```
alert("Incorrect user name/password! Attempt
No."+$scope.noAttempts)
}
else{

document.getElementById("loginButton").disabled=true
}

}
}
});
</script>
<style>
.error-message{
   color:red;
   font-size: 20px;
}
</style>
</head>

<body ng-app="loginApp" ng-controller="loginAppCntrl">

<h1>Angular JS Login Form</h1>
<form name="loginForm" ng-submit="submitForm()">

Enter the User Name:<input type="text" name="userName"
ng-model="userName" ng-minlength="5" ng-maxlength="8" required
placeholder="EnterUser Name">
<span class="error-message"
ng-show="loginForm.userName.$error.required &&
loginForm.userName.$dirty">UserName is Required</span>
<span class="error-message"
ng-show="loginForm.userName.$error.minlength">Minimum Length
Must be 5</span>
<span class="error-message"
ng-show="loginForm.userName.$error.maxlength">Maximum user
name length is limittedto 8</span>
<br/>
<br/>
```

```
Enter the Password: <input type="password" name="password"
ng-model="password" ng-minlength="5" ng-maxlength="8" required
placeholder="Enteryour password">
<span class="error-message" ng-
show="loginForm.password.$error.required&&
loginForm.password.$dirty">Password is required</span>
<span class="error-message"
ng-show="loginForm.password.$error.minlength">Minimum
Password length is 5</span>
<span class="error-message"
ng-show="loginForm.password.$error.maxlength">Maximum
password length is limittedto 8</span>
<br/>
<br/>
<button type="submit" ng-disabled="loginForm.$invalid"ng-
click="login()" id="loginButton">Login</button>

</form>
</body>
</html>
```

Output:

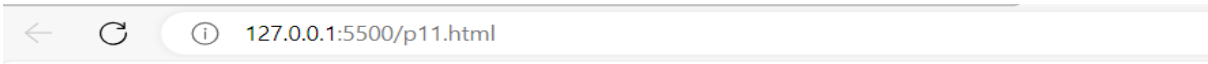


11. Create AngularJS application to convert student details to Uppercase using angular filters.
Note: The default details of students may be included in the program.

```
<!DOCTYPE html>
<html>
<title>Student Details in Uppercase</title>
<head>
<script type="text/javascript"
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min
.js">
</script>
<script>
var app=angular.module("studDetailsUpperApp",[]);
app.controller("studDetailsUpperAppCntrl",function($scope){
$scope.studDetails=['harish','kumar','chetan','prashanth','thanuja']
$scope.upper=true
$scope.lower=false
$scope.Lower=function()
{
//console.log('called')
$scope.upper=false
$scope.lower=true
}
$scope.Upper=function()
{
$scope.upper=true
$scope.lower=false
}
});
</script>
</head>
<body ng-app="studDetailsUpperApp">
<h1>Student Details in Uppercase</h1>
```

```
<div ng-controller="studDetailsUpperAppCntrl">
<button ng-click="Upper()">Upper</button>
<button ng-click="Lower()">Lower</button>
<table border="1">
<tr>
<th>SLNO</th>
<th>NAME</th>
</tr>
<tr ng-repeat="student in studDetails">
<td>{{$index+1}}</td>
<td ng-show="upper">{{student|uppercase}}</td>
<td ng-show="lower">{{student|lowercase}}</td>
</tr>
</table>
</div></body>
</html>
```

Output:



Student Details in Uppercase

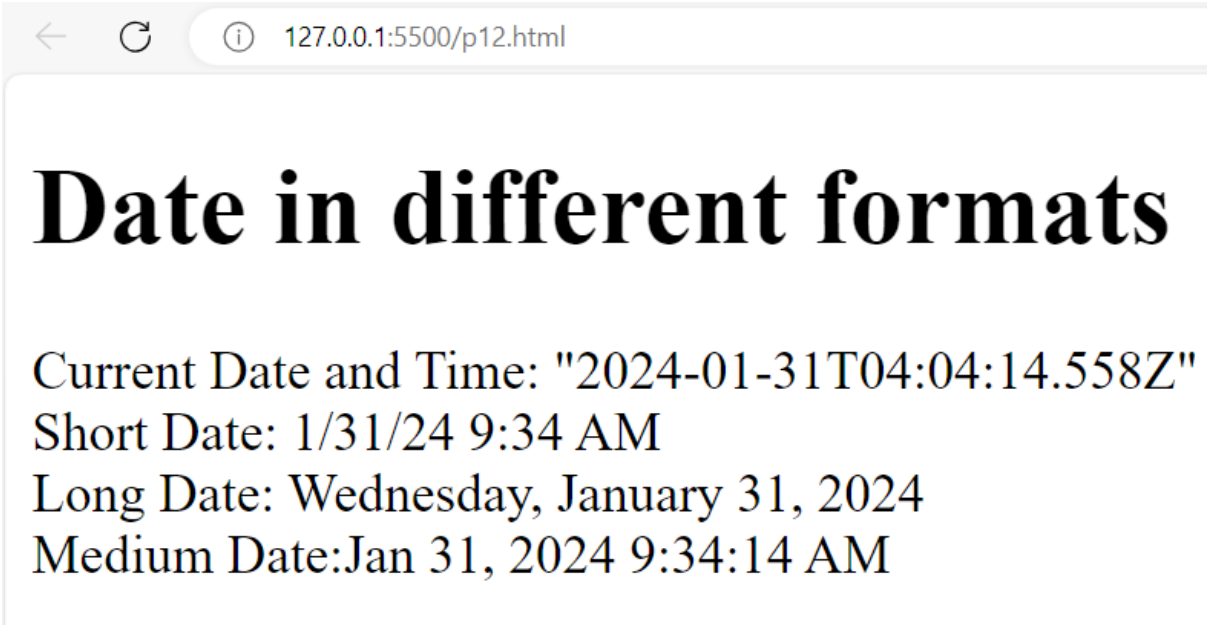
Upper Lower

SLNO	NAME
1	HARISH
2	KUMAR
3	CHETAN
4	PRASHANTH
5	THANUJA

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

```
<!DOCTYPE html>
<html>
<title>Date Application</title>
<head>
<script type="text/javascript"
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min
.js">
</script>
<script>
var app=angular.module("dateApp",[]);
app.controller("dateAppCntrl",function($scope){
$scope.currentDate=new Date();
});
</script>
</head>
<body ng-app="dateApp">
<h1>Date in different formats</h1>
<div ng-controller="dateAppCntrl">
Current Date and Time: {{currentDate}}<br/> Short Date:
{{currentDate|date: 'short'}}<br/>
Long Date: {{currentDate |date: 'fullDate'}}<br/>Medium
Date:{{currentDate| date: 'medium'}}
</div>
</body>
</html>
```

Output:



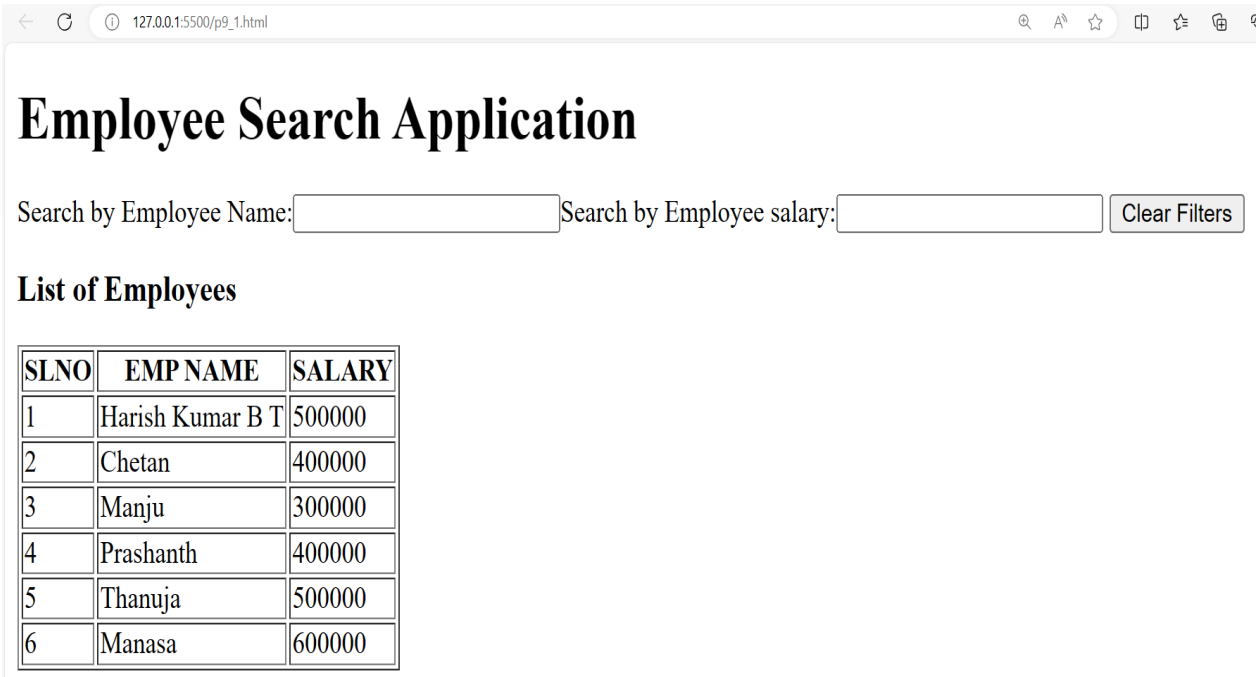
9. Create an AngularJS application that displays a list of employees and their salaries. Allow users to search for employees by name and salary. Note: Employee details may be included in the program.

```
<!DOCTYPE html>
<html>
<title>Angular JS Filter Employee Search Application</title>
<head>
<script type="text/javascript"
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular
.mi
n.js">
</script>
```

```
<script>
var app=angular.module("empSearchApp",[]);
app.controller("empSearchAppCntrl",function($scope){
$scope.empList=[
{'name':'Harish Kumar B T','salary':500000},
{'name':'Chetan','salary':400000},
{'name':'Manju','salary':300000},
{'name':'Prashanth','salary':400000},
{'name':'Thanuja','salary':500000},
{'name':'Manasa','salary':600000}
]
$scope.clearFilters=function()
{
$scope.searchName=''
$scope.searchSalary=''
}
});
</script>
</head>
<body ng-app="empSearchApp">
<h1>Employee Search Application</h1>
<div ng-controller="empSearchAppCntrl">
Search by Employee Name:<input type="text" ng-
model="searchName">Search by Employee salary:<input
type="number"
ng-model="searchSalary">

<button ng-click="clearFilters()">Clear Filters</button>
<br/>
<h3>List of Employees</h3>
<table border="1">
   <tr>
      <th>SLNO</th>
      <th>EMP NAME</th>
```

```
        <th>SALARY</th>
        </tr>
        <tr ng-repeat="emp in empList |
filter:{name:searchName,salary:searchSalary}">
        <td>{{$index+1}}</td>
        <td>{{emp.name}}</td>
        <td>{{emp.salary}}</td>
        </tr>
         </table>
         </div>
        </body>
        </html>
```

Output:



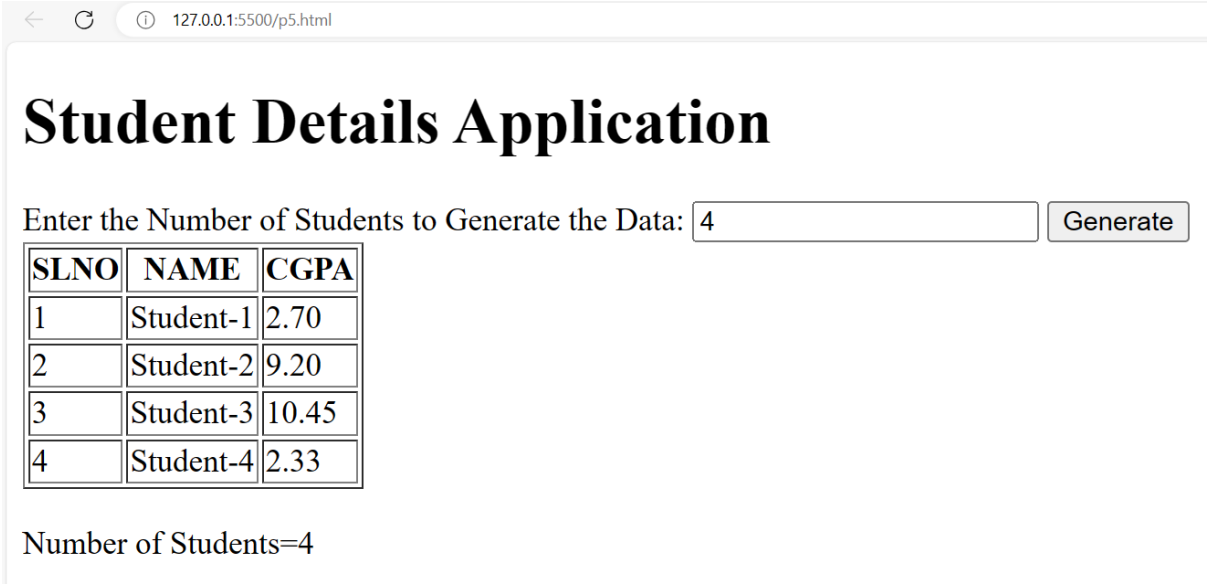
5. Develop AngularJS application that displays a details of students and their CGPA. Allow users to read the number of students and display the count. Note: Student details may be included in the program.

```
<!DOCTYPE html>
<html>
<title>Student Details Application</title>
```

```
<head>
<script type="text/javascript"
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular
.min.js">
</script>
<script>
var app=angular.module("studDetailsApp",[]);
app.controller("studDetailsAppCntrl",function($scope){
$scope.studData=[]
$scope.generateData=function()
{
$scope.studData=[]
for(var i=1;i<=$scope.num;i++)
{
var stud={
"SLNO":i,
"NAME":'Student-'+i,
"CGPA":(Math.random()*10+1).toFixed(2)
}
$scope.studData.push(stud)
}
}
});
</script>
</head>
<body ng-app="studDetailsApp">
<h1>Student Details Application</h1>
<div ng-controller="studDetailsAppCntrl">
Enter the Number of Students to Generate the Data:
 <input type="number" ng-model="num">
<button ng-click="generateData()">Generate</button>
<br/>
<table border="1" ng-show="studData.length>0">
<tr>
```

```
<th>SLNO</th>
<th>NAME</th>
<th>CGPA</th>
</tr>
<tr ng-repeat="student in studData">
<td>{{student.SLNO}}</td>
<td>{{student.NAME}}</td>
<td>{{student.CGPA}}</td>
</tr>
</table>
<br/>
Number of Students={{studData.length}}
</div>
</body>
</html>
```

Output:



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

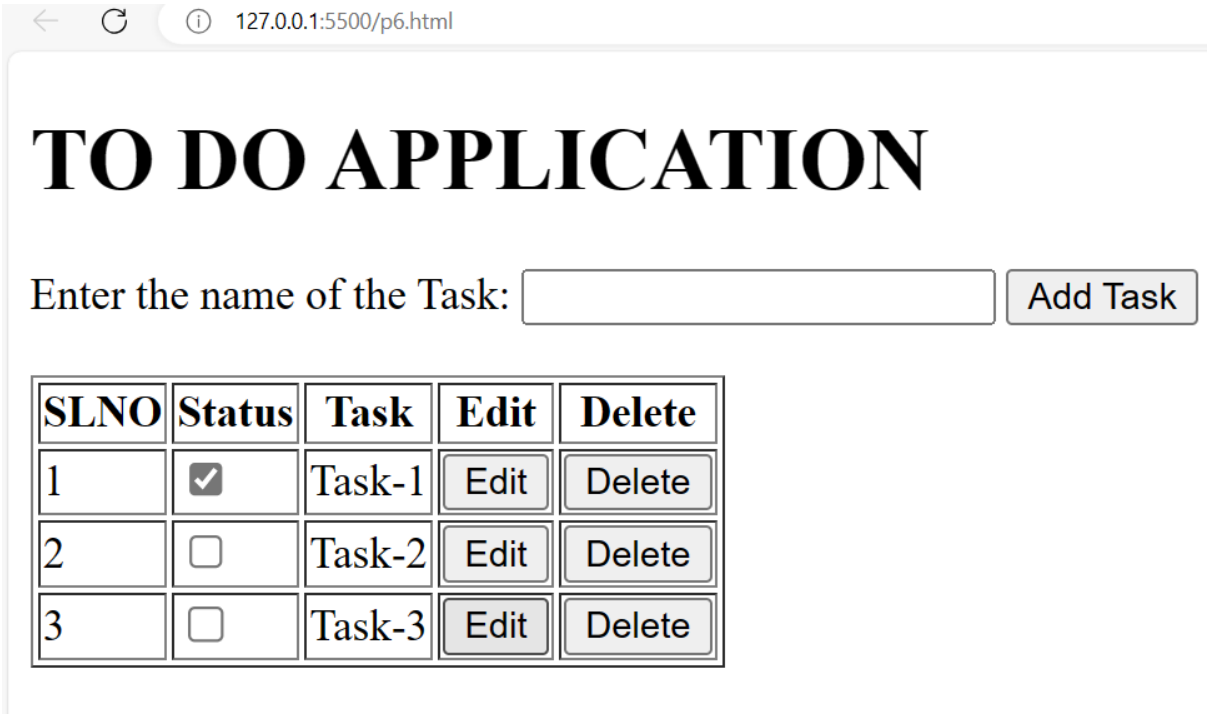
```
<!DOCTYPE html>
<html>
<title>TO DO Application</title>
<head>
```

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


<script>
var app=angular.module("toDoApp",[]);
app.controller("toDoAppCntrl",function($scope){
$scope.tasks=[
{'TITLE':'Task-1','COMPLETED':true,'EDITING':false},
{'TITLE':'Task-2','COMPLETED':false,'EDITING':false},
{'TITLE':'Task-3','COMPLETED':false,'EDITING':false}
]

$scope.addTask=function(){
   if($scope.newTask)
{
var t={
'TITLE':$scope.newTask,'COMPLETED':false, 'EDITING':false
}

$scope.tasks.push(t)
}
else{
alert("Please enter the task to add")
}
}


$scope.editTask=function(task)
{
task.EDITING=true
}
```

```
$scope.turnOffEditing=function(task)
{
    task.EDITING=false
}


$scope.deleteTask=function(task)

{
var index=$scope.tasks.indexOf(task)
$scope.tasks.splice(index,1)
}


});
</script>
</head>

<body ng-app="toDoApp">
<h1>TO DO APPLICATION</h1>
<div ng-controller="toDoAppCntrl">Enter the name of the Task:
<input type="text" ng-model="newTask">
<button ng-click="addTask()">Add Task</button>
<br/>
<br/>
<table border="1">
<tr>
<th>SLNO</th>
<th>Status</th>
<th>Task</th>
<th>Edit</th>
<th>Delete</th>
```

```
</tr>
<tr ng-repeat="task in tasks">
<td>{{$index+1}}</td>
<td>
<input type="checkbox" ng-model="task.COMPLETED">
</td>
<td>
<span ng-show="!task.EDITING">{{task.TITLE}}</span>
<input type="text" ng-show="task.EDITING"
ng-model="task.TITLE" ng-blur="turnOffEditing(task)">
</td>
<td>
   <button ng-click="editTask(task)">Edit</button>
</td>
<td><button ng-click="deleteTask(task)">Delete</button></td>
</tr></table>
</div>
</body></html>
```

Output:



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

managing users.

```
<!DOCTYPE html>
<html>
<title>USER MANAGEMENT APPLICATION</title>
<head>
<script type="text/javascript"
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular
.min.js">
</script>
<script>
var app=angular.module("userMgmtApp",[]);
app.controller("userMgmtAppCntrl",function($scope){
$scope.users=[
{'name':"Dr. Harish Kumar BT",
'email':'harish.bitcse82@gmail.com','editing':false},
{'name':'ABC','email':'abc@gmail.com','editing':false},
{'name':'XYZ','email':'xyz@gmail.com','editing':false}
]
$scope.createUser=function()
{
if($scope.newUserName && $scope.newUserEmail)
{
var u={
'name':$scope.newUserName,
'email':$scope.newUserEmail,
'editing':false
}
$scope.users.push(u)
$scope.newUserName=''
$scope.newUserEmail=''
}
else{
alert("Please provide the user name and email id")
}
```

```
}
$scope.readUser=function(user)
{
user.editing=true
}
$scope.updateUser=function(user){
user.editing=false
}
$scope.deleteUser=function(user)
{
var yes=confirm("Are you sure you want to delete")
if(yes==true)
{
var index=$scope.users.indexOf(user)
$scope.users.splice(index,1)
}
}
});
</script>
</head>
<body ng-app="userMgmtApp">
<h1>USER MANAGEMENT APPLICATION</h1>
<div ng-controller="userMgmtAppCntrl">
Enter the User Name:<input type="text" ng-
model="newUserName">
Enther the User Email:<input type="text" ng-
model="newUserEmail">
<button ng-click="createUser()">Create</button>
<br/>
<br/>
<table border="1">
<tr>
<th>SLNO</th>
<th>NAME</th>
```

```
<th>EMAIL</th>
<th>READ</th>
<th>UPDATE</th>
<th>DELETE</th>
</tr>
<tr ng-repeat="user in users">
<td>{{$index+1}}</td>
<td>
<span
ng-
how="!user.editing">{{user.name}}</span>   
; 
<input type="text" ng-show="user.editing" ng-
model="user.name">
</td>
<td>
<span ng-show="!user.editing">{{user.email}}</span>
<input type="text" ng-show="user.editing" ng-
model="user.email">
</td>
<td>
<button ng-click="readUser(user)">Read</button>
</td>
<td>
<button ng-click="updateUser(user)">Update</button>
</td>
<td>
<button ng-click="deleteUser(user)">Delete</button>
</td>
</tr>
</table>
</div>
</body>
</html>
```

Output:

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>
<title>Item Management Application</title>
<head>
<script type="text/javascript"
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular
.min.js">
</script>
<script>
var app=angular.module("itemMgmtApp",[]);
app.controller("itemMgmtAppCntrl",function($scope){
$scope.itemList=['Pen','Pencil','Eraser','Book']
$scope.addItem=function()
{
```

```
if($scope.newItem)
{
if($scope.itemList.indexOf($scope.newItem)==-1)
{
$scope.itemList.push($scope.newItem)
}
else{
alert('This item is already there in the item collection')
}
}
else{
alert('Please Enter the item to add')
}
}
$scope.removeItem=function(item)
{
var yes=confirm("Are you sure you want to delete "+item)
if(yes==true)
{
var index=$scope.itemList.indexOf(item)
$scope.itemList.splice(index,1)
}
}
});
</script>
</head>
<body ng-app="itemMgmtApp">
<h1>Item Management Application</h1>
<div ng-controller="itemMgmtAppCntrl">
Enter an item to add: <input type="text" ng-model="newItem">
<button ng-click="addItem()">ADD</button>
<br/><br/>
<b>List of Items</b>
<table border="1">
```

```
<tr>
<th>SLNO</th>
<th>Item</th>
<th>Remove</th>
</tr>
<tr ng-repeat="item in itemList">
<td>{{$index+1}}</td>
<td>{{item}}</td>
<td><button ng-click=removeItem(item)>Remove</button></td>
</tr>
</table>
<br/>
Total Number of Items=<b>{{itemList.length}}</b>
</div>
</body>
</html>
```

Output: