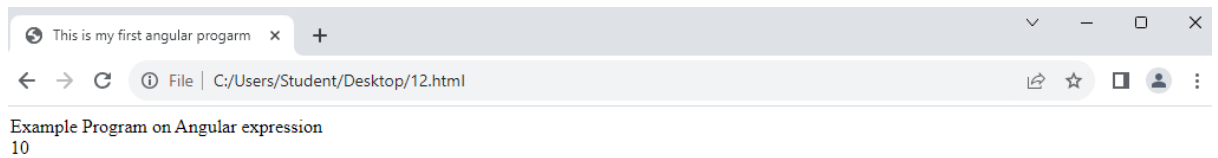


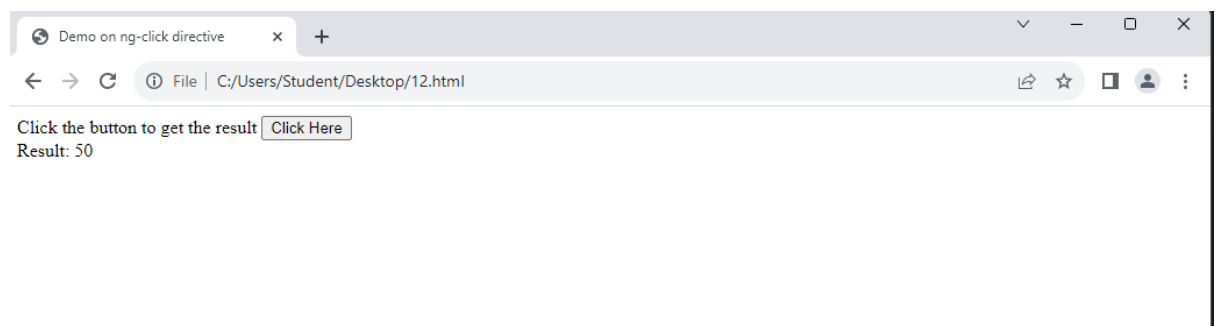
### 1a. Program on Angular JS using Angular expression

```
<!DOCTYPE html>
<html>
<title>
This is my first angular progarm
</title>
<head>
<script type="text/javascript"
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"
>
</script>
</head>
<body>
<div ng-app="">
{{5+5}}
</div>
</body>
</html>
```



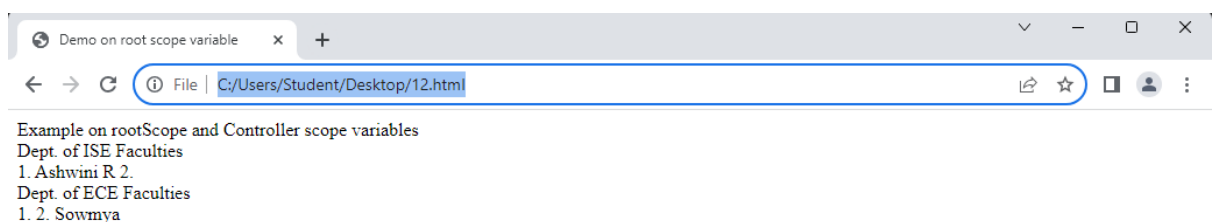
## 1b. write a program on angular Js using ng-click

```
<!DOCTYPE html>
<html>
<title>
Demo on ng-click directive
</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.num1=20
$scope.num2=30
$scope.result
$scope.add=function()
{
console.log("Function Called")
$scope.result=$scope.num1 + $scope.num2
// return $scope.result
}
});
</script>
</head>
<body>
<div ng-app="myApp" ng-controller="myCntrl">
Click the button to get the result
<button ng-click="add()">Click Here</button><br/>
Result: {{result}}
</div>
</body>
</html>
```



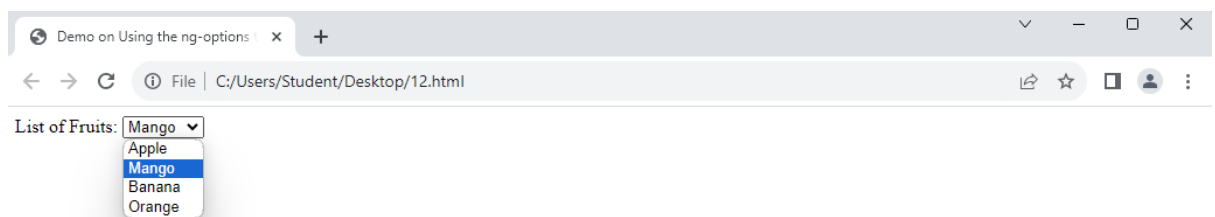
## 2. Write a program on rootScope and Controller scope variables

```
<!DOCTYPE html>
<html>
<title>Demo on root scope variable</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.run(function($rootScope){
$rootScope.dept1="ISE"
$rootScope.dept2="ECE"
});
app.controller("myCntrl", function($scope){
$scope.name1="Ashwini R"
});
app.controller("myAnotherCntrl", function($scope){
$scope.name2="Sowmya"
});
</script>
</head>
<body ng-app="myApp">
<div ng-controller="myCntrl">
Dept. of {{dept1}} Faculties<br/>
1. {{name1}}
2. {{name2}}
</div>
<div ng-controller="myAnotherCntrl">
Dept. of {{dept2}} Faculties<br/>
1. {{name1}}
2. {{name2}}
</div>
</body>
</html>
```



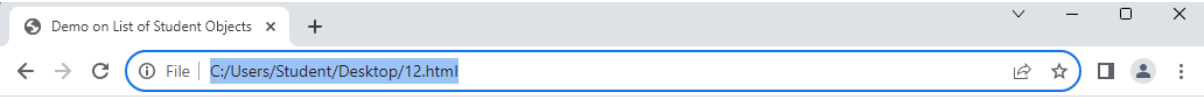
### 3. Write a program using Angular JS on ng-options

```
<!DOCTYPE html>
<html>
<title> Demo on Using the ng-options to fill the dropdown list from the list
of values</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.myList=['Apple','Mango','Banana','Orange']
});
</script>
</head>
<body ng-app="myApp">
<div ng-controller="myCntrl">
List of Fruits: <select ng-model="selectFruit" ng-options="fruit for
fruit in myList"></select>
</div>
</body>
</html>
```



#### 4. Write a program on Angular JS to display student List Object

```
<!DOCTYPE html>
<html>
<title> Demo on List of Student Objects</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("studListApp",[]);
app.controller("studListAppCntrl", function($scope){
$scope.studList=[
{'USN':'1BI20CS001','NAME':'ABC','DEPT':'CSE','SEM':7,'MARKS':78},
{'USN':'1BI20EC002','NAME':'XYZ','DEPT':'ECE','SEM':6,'MARKS':89},
{'USN':'1BI20EE003','NAME':'PQR','DEPT':'EEE','SEM':7,'MARKS':56},
{'USN':'1BI20CS002','NAME':'LMN','DEPT':'CSE','SEM':7,'MARKS':90},
]
});
</script>
</head>
<body ng-app="studListApp">
<h1>Student List</h1>
<div ng-controller="studListAppCntrl">
<table border="1">
<tr>
<th>USN</th>
<th>NAME</th>
<th>DEPT</th>
<th>SEM</th>
<th>MARKS</th>
</tr>
<tr ng-repeat="student in studList">
<td>{{student.USN}}</td>
<td>{{student.NAME}}</td>
<td>{{student.DEPT}}</td>
<td>{{student.SEM}}</td>
<td>{{student.MARKS}}</td>
</tr>
</table>
</div>
</body>
</html>
```



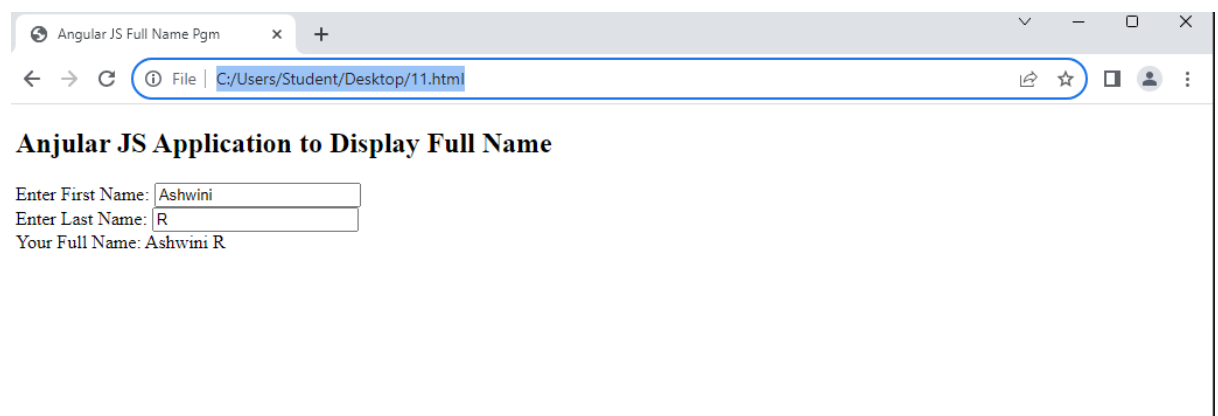
# Student List

USN	NAME	DEPT	SEM	MARKS
1BI20CS001	ABC	CSE	7	78
1BI20EC002	XYZ	ECE	6	89
1BI20EE003	PQR	EEE	7	56
1BI20CS002	LMN	CSE	7	90

5. 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="Ashwini"
$scope.lastName="R"
});
</script>
</head>
<body ng-app="myApp">
<h2>Angular 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:



6. 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
  }
});
34</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>
```



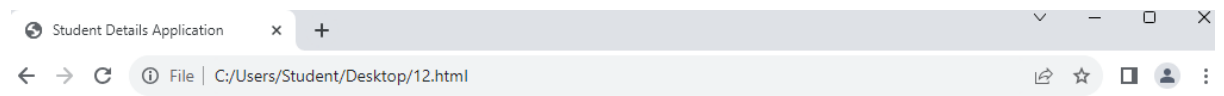
</body>  
</html>



7. **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>
```



## Student Details Application

Enter the Number of Students to Generate the Data:

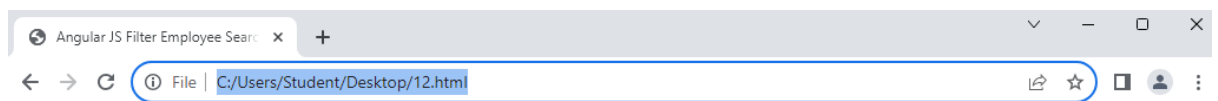
SLNO	NAME	CGPA
1	Student-1	8.18
2	Student-2	2.26
3	Student-3	6.16
4	Student-4	7.51
5	Student-5	5.06
6	Student-6	7.69

Number of Students=6

8. **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':'M','salary':500000},
{'name':'B','salary':400000},
{'name':'A','salary':300000},
{'name':'C','salary':400000},
{'name':'L','salary':500000},
{'name':'K','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>
```



## Employee Search Application

Search by Employee Name:  Search by Employee salary:

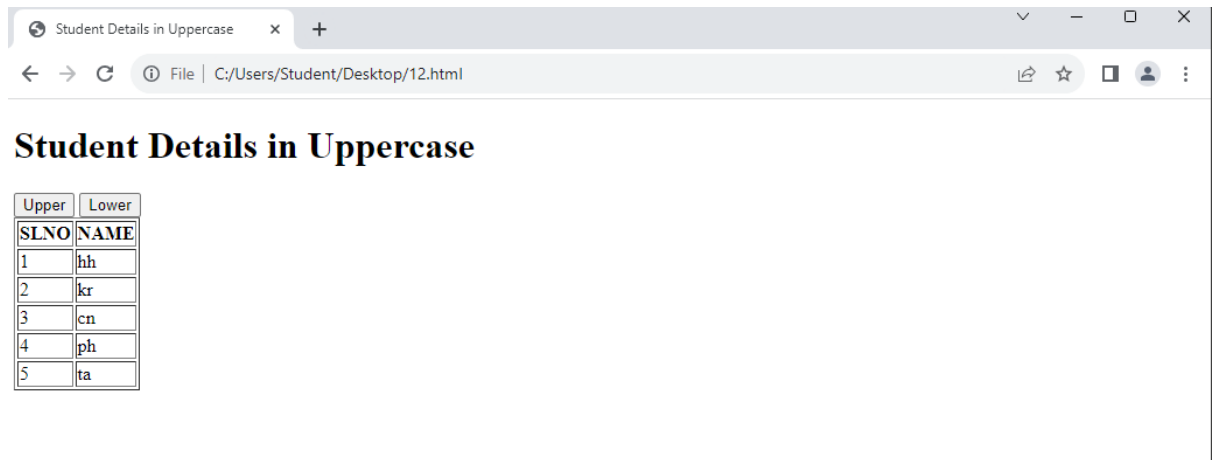
### List of Employees

SLNO	EMP NAME	SALARY
1	M	500000
2	B	400000
3	A	300000
4	C	400000
5	L	500000
6	K	600000

**9. 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=['hh','kr','cn','ph','ta']
$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>



10. 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>
```



## Date in different formats

Current Date and Time: "2024-01-03T05:53:10.785Z"  
Short Date: 1/3/24 11:23 AM  
Long Date: Wednesday, January 3, 2024  
Medium Date: Jan 3, 2024 11:23:10 AM