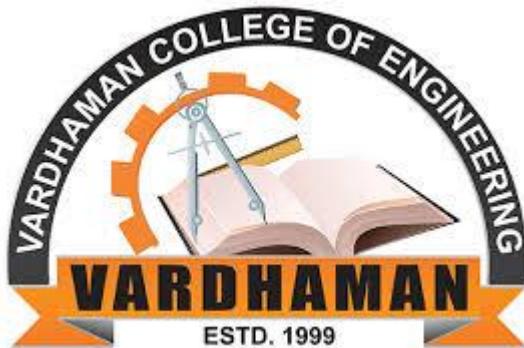


VARDHAMAN COLLEGE OF ENGINEERING HYDERABAD  
Autonomous institute affiliated to JNTUH



# Dynamic Web Application Development

## Lab Manual AY:2021-22

Department Of Information Technology

## WEEK-1

### a. AngularJS application to print Hello World AngularJS.

#### **Program:**

```
<!DOCTYPE html>

<html lang="en">
<head>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.3.14/angular.min.js">
</script>
</head>
<body ng-app="myapp">
<!-- View Part -->
<div ng-controller="HelloController" >
<h2>Hello {{ helloTo.title }} !</h2>
</div>
<!-- Controller Part -->
<script>
angular.module("myapp", [])
.controller("HelloController", function($scope) {
$scope.helloTo = {};
$scope.helloTo.title = "World, AngularJS"; } );
</script>
</body>
</html>
```

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## Output:



Hello World, AngularJS !

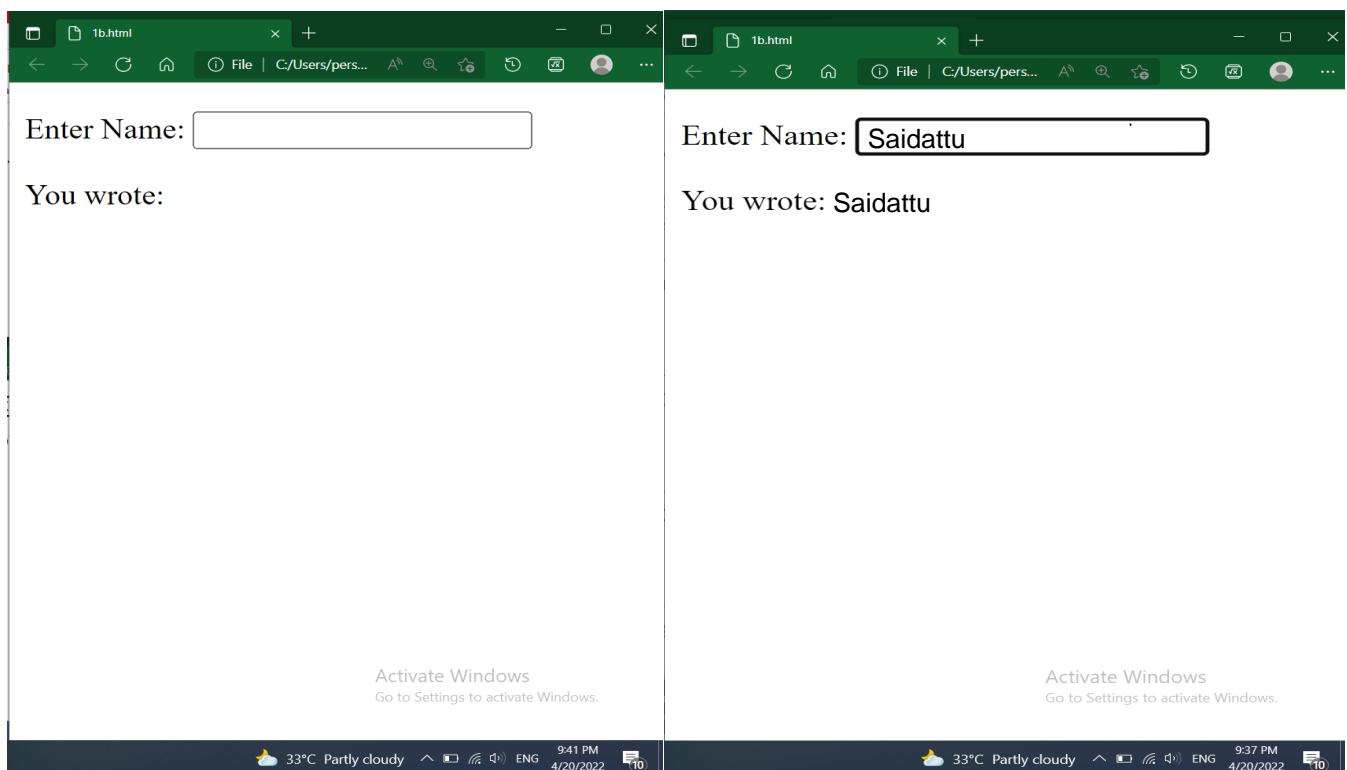


**b. AngularJS application to bind the name of a user entered using expression tag**

**Program:**

```
<!DOCTYPE html>
<html>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.3.14/angular.min.js">
</script>
<body>
<div ng-app="" >
<p>Enter Name: <input type="text" ng-model="Name"></p>
<p>You wrote: {{ Name }} </span></p>
</div>
</body>
</html>
```

**Output:**

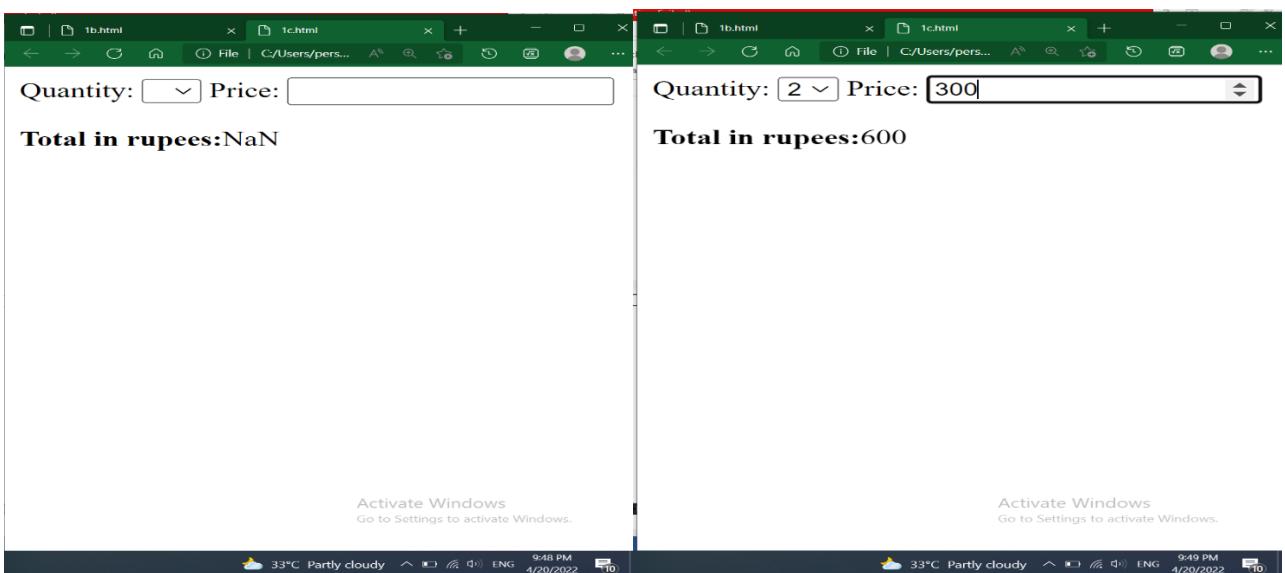


**c. AngularJS application to compute “total price=quantity\*price” using ng-bind, (hint: design quantity using selection tag).**

**Program:**

```
<!DOCTYPE html>
<html>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.3.14/angular.min.js">
</script>
<body>
<div data-ng-app="">
Quantity: <select ng-model="quantity" >
<option value=1 >1</option>
<option value=2 >2</option>
<option value=3>3</option> </select>
Price: <input type="number" ng-model="price">
<p> <b>Total in rupees:</b><span ng-bind="quantity * price"></span> </p>
</div>
</body>
</html>
```

**Output:**



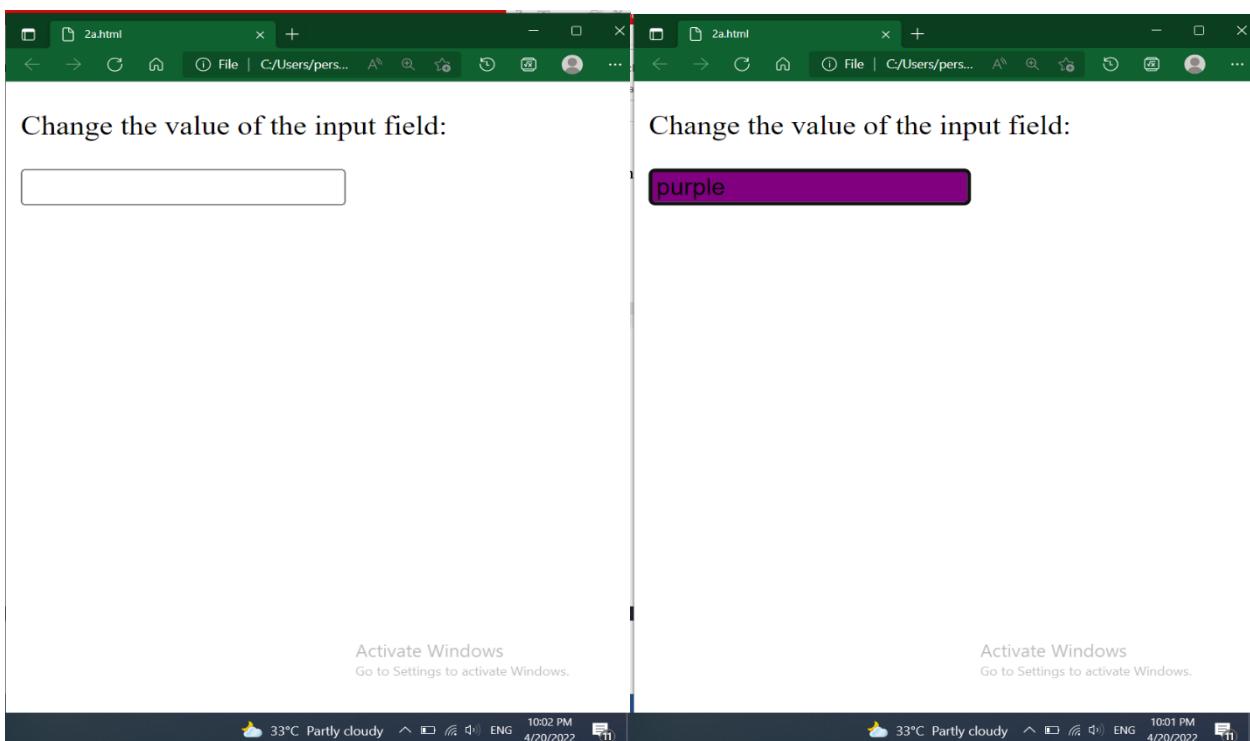
## WEEK-2

- a. AngularJS application to set the background color of the input field based on color name entered by the user.**

**Program:**

```
<!DOCTYPE html>
<html>
<script src="
https://ajax.googleapis.com/ajax/libs/angularjs/1.3.14/angular.min.js">
</script>
<body>
<p>Change the value of the input field:</p>
<div ng-app="">
<input type="text" style="background-color:{{col}}" ng-model="col"
value="{{col}}">
</div>
</body>
</html>
```

**Output:**

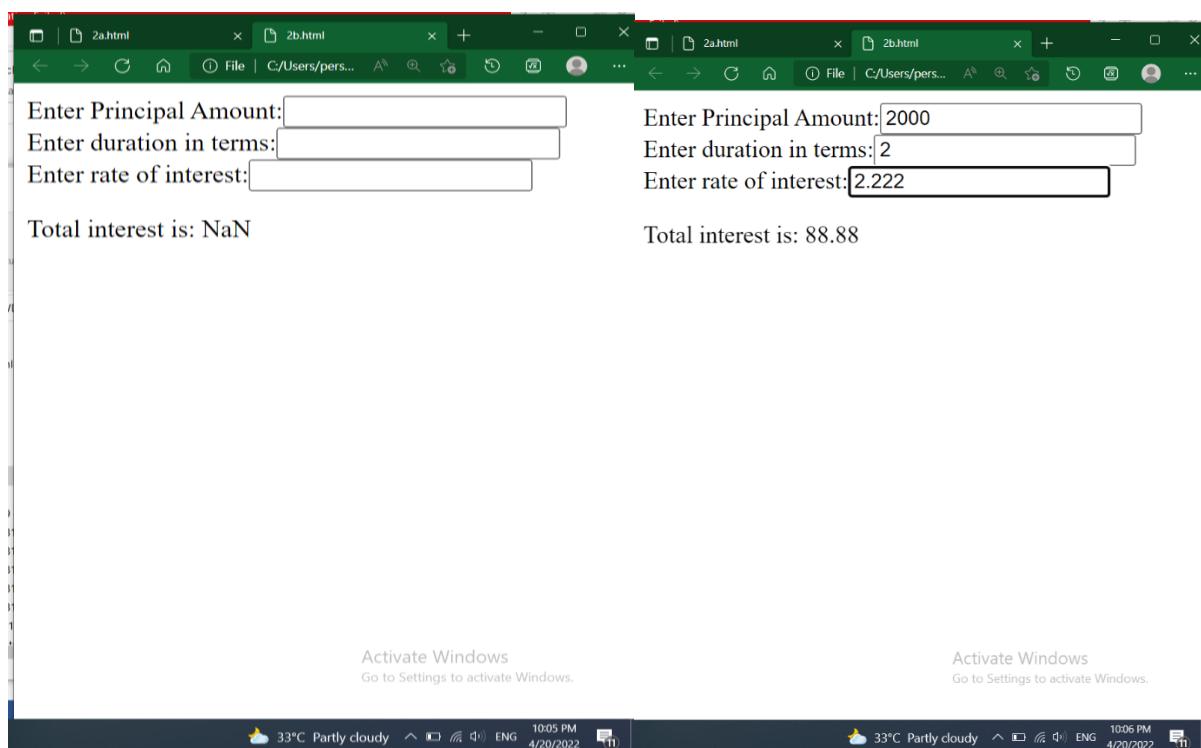


## b. AngularJS application to compute simple interest.

### Program:

```
<!DOCTYPE html>
<html>
<script src="
https://ajax.googleapis.com/ajax/libs/angularjs/1.3.14/angular.min.js ">
</script>
<body>
<div ng-app="">
Enter Principal Amount:<input type="text" ng-model="p"><br>
Enter duration in terms:<input type="text" ng-model="t"><br>
Enter rate of interest:<input type="text" ng-model="r"><br>
<p>Total interest is: {{(p*t*r)/100}} </p>
</div>
</body>
</html>
```

### Output:

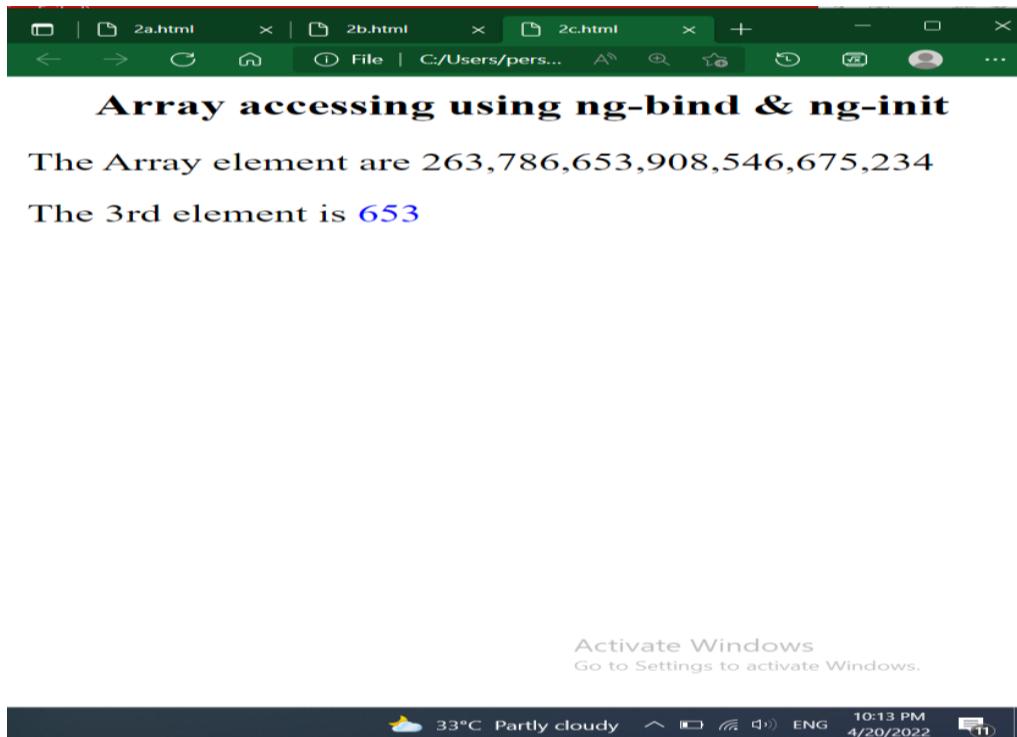


**c. AngularJS application to initialize an JS array using ng-init and access it using ng-bind.**

**Program:**

```
<html>
<script src="
https://ajax.googleapis.com/ajax/libs/angularjs/1.3.14/angular.min.js">
</script>
<body>
<h3 align="center"> Array accessing using ng-bind & ng-init</h3>
<div ng-app="" ng-init="arr=[263,786,653,908,546,675,234]">
<p>The Array element are <span style="color:green" ng-bind="arr"></span></p>
<p>The 3rd element is <span style="color:yellow" ng-bind="arr[2]"></span> </p>
</div>
</body> </html>
```

**Output:**



#### d. AngularJS application to initialize a JS object using ng-init and access it using ng-bind

##### Program:

```
<!DOCTYPE html>
<html>
<script src=" https://ajax.googleapis.com/ajax/libs/angularjs/1.3.14/angular.min.js
">
</script>
<body>
<h3 align="center">JS Object initialization & Access</h3>
<div ng-app="" ng-init="person={fName: 'Sai' ,lName: 'Dattu' }">
<p style="color.blue">JS object: person={fName:'Krishna',lName:'Singh'}</p>
<p>JS Object Access:<br/>
<span style="color:red" ng-bind= "person.fName + person.lName"> </span> </p>
</div>
</body>
</html>
```

##### Output:



##### JS Object initialization & Access

JS object: person={fName:'Krishna',lName:'Singh'}

JS Object Access: Sai Dattu

Activate Windows  
Go to Settings to activate Windows.



**WEEK-3**

- a. AngularJS application to set the style of div tag by selecting the branch value from dropdown menu using ng-class directive**

**Program:**

```
<html>

<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.3.14/angular.min.js">
</script>

<style>

.cse {
    color:white;
    background-color:aqua;
    padding:20px;
    font-family:"Courier New";
}

.it {
    color:green;
    background-color:brown;
    padding:30px;
}

.eee{
    background-color:red;
    padding:40px;
    font-family:Verdana;
}

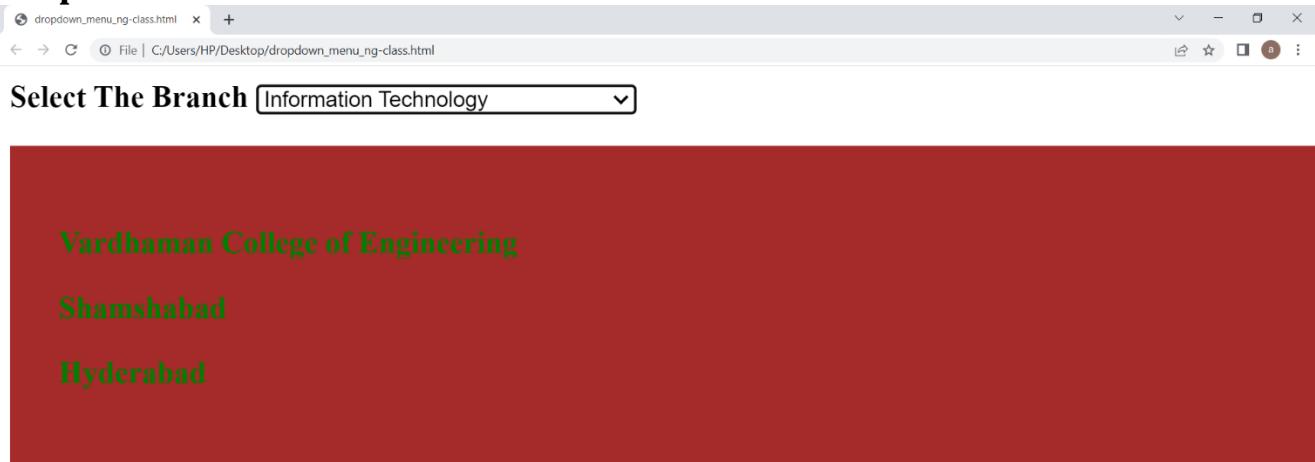
</style>

<body ng-app="">
<h3>Select The Branch <select ng-model="branch">
```

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```
<option value="cse"> Computer Science & Engineering</option>
<option value="it"> Information Technology</option>
<option value="eee">Electrical & Electronics Engineering</option>
</select> </h3>
<div ng-class="branch">
<h3>Vardhaman College of Engineering</h3>
<h3>Shamshabad</h3>
<h3>Hyderabad</h3> </div>
</body> </html>
```

### Output:



**b. AngularJS application to set the style of even rows of a table using ng-class-even directive****Program:**

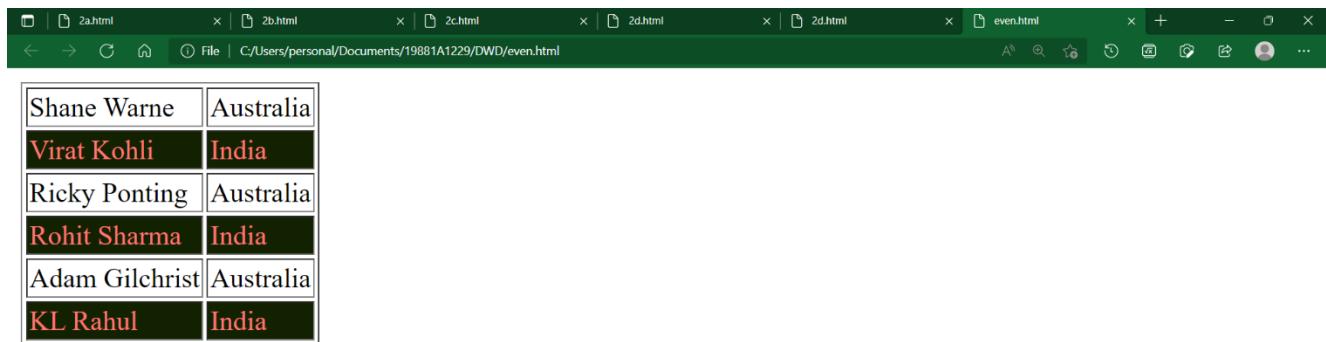
```
<html>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.3.14/angular.min.js">
</script>
<style>
.even { color: yellow;
background-color:pink; }
</style>
<body ng-app="myApp">
<table ng-controller="myCtrl" border='1'>
<tr ng-repeat="x in records" ng-class-even=""even"">
<td>{{x.Name}}</td>
<td>{{x.Country}}</td>
</tr> </table>
<script>
var app = angular.module("myApp", []);
app.controller("myCtrl", function($scope) {
$scope.records = [ { "Name" : "Shane Warne", "Country" : "Australia" },
{ "Name" : "Virat Kohli", "Country" : "India" },
{ "Name" : "Ricky Ponting", "Country" : "Australia" },
{ "Name" : "Rohit Sharma", "Country" : "India" },
{ "Name" : "Adam Gilchrist", "Country" : "Australia" },
{ "Name" : "KL Rahul", "Country" : "India" } ] });
</script>
```

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</body>

</html>

**Output:**



|                |           |
|----------------|-----------|
| Shane Warne    | Australia |
| Virat Kohli    | India     |
| Ricky Ponting  | Australia |
| Rohit Sharma   | India     |
| Adam Gilchrist | Australia |
| KL Rahul       | India     |

Activate Windows  
Go to Settings to activate Windows.

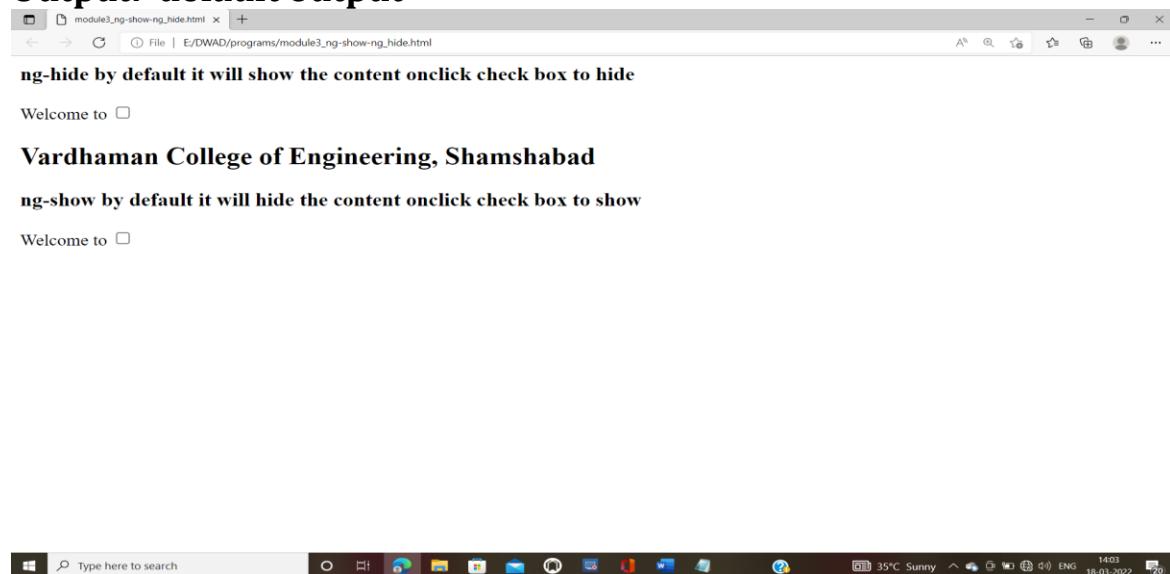


### C. AngularJS application to show/hide the content of div tag using ng-show and ng-hide directive.

#### Program:

```
<html>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.3.14/angular.min.js">
</script>
<body ng-app="">
<h3>ng-hide by default it will show the content onclick check box to hide</h3>
Welcome to <input type="checkbox" ng-model="status_hide">
<div ng-hide="status_hide">
<h2>Vardhaman College of Engineering, Shamshabad</h2> </div>
<h3>ng-show by default it will hide the content onclick check box to show</h3>
Welcome to <input type="checkbox" ng-model="status_show">
<div ng-show="status_show">
<h3>Department of CSE,VCE,Shamshabad </h3> </div>
</body> </html>
```

#### Output: default output



## Output: on-show output



**ng-hide by default it will show the content onclick check box to hide**

Welcome to

**Vardhaman College of Engineering, Shamshabad**

**ng-show by default it will hide the content onclick check box to show**

Welcome to

**Department of CSE,VCE,Shamshabad**



## Output: on-hide output



**ng-hide by default it will show the content onclick check box to hide**

Welcome to

**ng-show by default it will hide the content onclick check box to show**

Welcome to



#### d. AngularJS application to switch between options using ng-switch directive

##### Program:

```
<html>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.3.14/angular.min.js">
</script>

<body ng-app="">
Choose your Branch:
<select ng-model="branch">
<option value="cse">Computer Science and Engineering </option>
<option value="ece">electronics and Communication Engineering </option>
<option value="eee">Electrical and Electronis Engineering </option></select>
<hr>
<div ng-switch="branch">
<div ng-switch-when="cse">
<h1>It Has Programming Languages</h1> </div>
<div ng-switch-when="ece">
<h1>It has Circuit Desing Courses</h1> </div>
<div ng-switch-when="eee">
<h1>It has Machines Related courses</h1> </div>
<div ng-switch-default>
<h1>No Course Selected</h1> </div>
</div>
</body>
```

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</html>

## Output:



No Course Selected

It Has Programming Languages





It has Circuit Desing Courses

It has Machines Related courses



## WEEK-4

### a. AngularJS application to list out any 3 Indian states and its capitals by using ng-repeat directive.

#### Program:

```
<html>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.3.14/angular.min.js">
</script>
<body>
<div ng-app = "" ng-init ="states = [ {name:'Telangana',capital:'Hyderabad'},
{name:'Andhra Pradesh',capital:'Amravati'},
{name:'TamilNadu',capital:'Chennai'}]">
<p>States </p>
<ol>
<li ng-repeat="x in states"> {{ x.name + '=>' + x.capital}} </li>
</ol>
</div>
</body>
</html>
```

#### Output:



States

1. Telangana=>Hyderabad
2. Andhra Pradesh=>Amravati
3. TamilNadu=>Chennai



**b. AngularJS application to increment the counter value based on mouse double click event using ng-dblclick directive**

**Program:**

```
<!DOCTYPE html>

<html>

<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.3.14/angular.min.js">
</script>

<body ng-app="">

<h1 ng-dblclick="count = count + 1" ng-init="count=0">
    Double click To Like my College Name!
</h1>

<p>Vardhaman is Liked {{count}} times.</p>

</body> </html>
```

**Output:**



Double click To Like my College Name!

Vardhaman is Liked 0 times.

Double click To Like my College Name!

Vardhaman is Liked 21 times.



### c. AngularJS application to view JS variables using ng-controller (MVC model)

#### Program:

```
<html>

<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.3.14/angular.min.js">
</script>

<body>

<div style="color: aqua" ng-app="app11" ng-controller="myFun">

<h2> This is {{fName + " " + lName}} </h2> </div>

<script>

var app = angular.module('app11', []);

app.controller('myFun', function($scope) {

$scope.fName = "Sai"      ;

$scope.lName = "Dattu"      ; });

</script>

</body> </html>
```

#### Output:



This is Sai dattu

Activate Windows  
Go to Settings to activate Windows.



**d. AngularJS application to view JS function using ng-controller, where an ng-controller define in an external file.**

**Program:**

**Cotroller.html**

```
<!DOCTYPE html>
<html>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.2.5/angular.min.js">
</script>
<body>
<div ng-app="myApp" ng-controller="personCtrl">
First Name: <input type="text" ng-model="firstName"><br>
Last Name: <input type="text" ng-model="lastName"><br>
<p>full name is:<{{getFullName()}}>
</div>
<script src="control.js"></script>
</body>
</html><script src="personal.js"></script> </body> </html>
```

**control.js program:**

```
angular.module('myApp', []).controller('personCtrl', function($scope)
{
    $scope.firstName = "",
    $scope.lastName = "",
    $scope.getFullName = function() {
        return $scope.firstName + " " + $scope.lastName;
    }
});
```

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## Output:



First Name:   
Last Name:

full name is:

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First Name:   
Last Name:

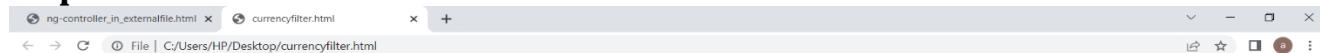
full name is: Sai Dattu

Activate Windows  
Go to Settings to activate Windows.



**WEEK-5****a. AngularJS application to demonstrate the currency filter****Program:**

```
<!DOCTYPE html>
<html>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.3.14/angular.min.js">
</script>
<body>
<div ng-app="myApp" ng-controller="costCtrl">
<h1>Price: {{ price | currency:"₹":3 }}</h1>
<h1>Price: {{ price | currency }}</h1>
</div>
<script>
var app = angular.module('myApp', []);
app.controller('costCtrl', function($scope) {
  $scope.price = 20234.65598740;
});
</script>
<p>The currency filter is used to format a number as a currency.</p>
</body>
</html>
```

**Output:**

**Price: ₹20,234.656**

**Price: \$20,234.66**

The currency filter is used to format a number as a currency.



**b. AngularJS application to demonstrate the date filter**

**Program:**

```
<!DOCTYPE html>

<html>

<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.3.14/angular.min.js">
</script>

<body>

<div ng-app="myApp" ng-controller="dataCtrl">

<p style="color:pink" >Date = {{ today | date }}</p>

<p style="color:aqua">Date = {{ today | date : "dd.MMMM.y" }}</p>

<p style="color:green">Date = {{ today | date : "fullDate" }}</p>

<p style="color:purple">Date = {{ today | date : "longDate" }}</p>

<p style="color:yellow">Date = {{ today | date : "'today is ' MMMM d, y" }}</p>

<p style="color:black">Time is = {{ today | date : "mediumTime" }}</p> </div>

<script>

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

app.controller('dataCtrl', function($scope) { $scope.today = new Date(); });

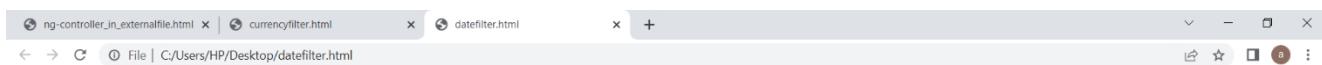
</script>

</body>

</html>
```

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## Output:



Date = Apr 9, 2022

Date = 09.April.2022

Date = Saturday, April 9, 2022

Date = April 9, 2022

Date = today is April 9, 2022

Time is = 8:07:54 PM



### c. AngularJS application to demonstrate the filter filter

Program:

```
<!DOCTYPE html>

<html>

<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.3.14/angular.min.js">
</script>

<body>

<div ng-app="myApp" ng-controller="namesCtrl">

<ul>

<li ng-repeat="x in names | filter : 'ar'">
{{ x }} </li> </ul> </div>

<script>

angular.module('myApp', []).controller('namesCtrl', function($scope) {

$scope.names = [ 'Aryana', 'Arjeet', 'Arun', 'Varun', 'Olivia', '', 'Mary', 'Kali', 'Arjun']; });

</script>

<p>The names containing the letter "ar"</p>

</body> </html>
```

## Output:



The names containing the letter "ar"



**d. AngularJS application to demonstrate the limit to filter Program:**

```
<!DOCTYPE html>

<html>

<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.3.14/angular.min.js">
</script>

<body>

<div ng-app="myApp" ng-controller="sizeCtrl">

<p>It displays only the first 4 cars because limit is 4 (positive).</p>
<ul> <li ng-repeat="x in cars | limitTo : 4 ">{{x}}</li> </ul>

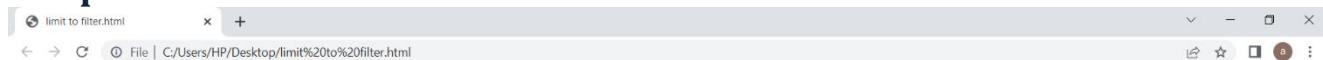
<p>It displays only the last 4 cars because limit is -4 (negative).</p>
<ul> <li ng-repeat="x in cars | limitTo : -4 ">{{x}}</li> </ul> </div>

<script>

var app = angular.module('myApp', []);
app.controller('sizeCtrl', function($scope) {
  $scope.cars = ["Audi", "BMW", "Tata", "Mahindra", "Ford", "Volvo"];
});

</script> </body> </html>
```

## Output:



It displays only the first 4 cars because limit is 4 (positive).

- Audi
- BMW
- Tata
- Mahindra

It displays only the last 4 cars because limit is -4 (negative).

- Tata
- Mahindra
- Ford
- Volvo



## WEEK-6

### a. AngularJS application to demonstrate the lower/upper filter.

#### Program:

```
<!DOCTYPE html>
<html>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.3.14/angular.min.js ">
</script>
<body>
<div ng-app="myApp" ng-controller="personCtrl">
<p style="color:pink">First name in uppercase: {{ firstName | uppercase }}</p>
<p style="color:yellow">Last Name in Lowercase: {{ lastName | lowercase }}</p>
</div>
<script>
angular.module('myApp', []).controller('personCtrl', function($scope) {
  $scope.firstName = "sai",
  $scope.lastName = "Dattu"
});
</script>
</body>
</html>
```

#### Output:



First name in uppercase: Sai

Last Name in Lowercase: Dattu

Activate Windows  
Go to Settings to activate Windows.



## b. AngularJS application to demonstrate the orderby filter.

### Program:

```
<!DOCTYPE html>
<html>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.3.14/angular.min.js">
</script>
<body>
<div ng-app="myApp" ng-controller="namesCtrl">
<p>Looping with objects:</p>
<ol>
<li ng-repeat="x in names | orderBy:'country'">
{{ x.name + ', ' + x.country }} </li></ol></div>
<script>
angular.module('myApp', []).controller('namesCtrl', function($scope) {
$scope.names = [
{name:'Sunny',country:'Australia'},
{name:'Aliya',country:'USA'},
{name:'dtrance',country:'UK'},
{name:'Kruthi',country:'Canada'} ]); </script>
</body>
</html>
```

### Output:



Looping with objects:

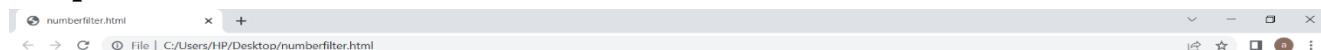
1. Sunny , Australia
2. Kruthi, Canada
3. dtrance , UK
4. Aliya, USA

### C. AngularJS application to demonstrate the number filter

#### Program:

```
<!DOCTYPE html>
<html>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.3.14/angular.min.js">
</script>
<body>
<div ng-app="myApp" ng-controller="nCtrl">
<h1>Rs: {{prize | number}} </h1>
<h1>Weight: {{weight | number : 4}} Kg</h1>
<h1>Quantity: {{qty | number }}</h1>
</div>
<script>
var app = angular.module('myApp', []);
app.controller('nCtrl', function($scope) {
$scope.prize = 1800;
$scope.weight = 675.9976;
$scope.qty = 8 ; });
</script>
</body>
</html>
```

#### Output:



**Rs: 1,800**

**Weight: 675.9976 Kg**

**Quantity: 8**



c. AngularJS application using custom filter to assign grade 'B' if salary is less than or equal to 15000 ,otherwise grade 'A' in salary table.

**Program:**

```
<html>
<head>
<title>AngularJS Custom Filter Application</title>
<script src ="https://ajax.googleapis.com/ajax/libs/angularjs/1.3.14/angular.min.js">
</script>
</head>
<body ng-app = "myApp" ng-controller="myController">
  <h1>Employee Details of VCE before filter</h1>
  <table border=1>
    <tr>
      <th> Name of the Employee</th>
      <th> Gender</th>
      <th> Salary</th>
    </tr>
    <tr ng-repeat="x in employee">
      <td>{{x.name}}</td>
      <td>{{x.gender}}</td>
      <td>{{x.salary}}</td>
    </tr>
  </table>
  <h1>Employee Details of VCE After applying Grade filter</h1>
  <table border=1>
    <tr>
      <th> Name of the Employee</th>
      <th> Gender</th>
      <th> Salary</th>
    </tr>
    <tr ng-repeat="x in employee">
      <td>{{x.name}}</td>
      <td>{{x.gender}}</td>
      <td>{{x.salary | salary}}</td>
```

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```
</tr>
</table>
<script>
var app=angular.module("myApp",[]);
app.filter("salary",function(){
    return function(salary){
        if(salary>=20000){
            return "A";
        }
        else{
            return "B";
        }
    }
});
app.controller("myController",function($scope){
$scope.employee=[
{name:"sunny",gender:"male",salary:589000},
{name:"Kruti",gender:"female",salary:56000},
{name:"siva",gender:"male",salary:67000},
{name:"Arjun",gender:"male",salary:98000}
];
});
</script> </body></html>
```

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## Output:



## Employee Details of VCE before filter

| Name of the Employee | Gender | Salary |
|----------------------|--------|--------|
| Sai                  | male   | 589000 |
| Kruti                | female | 56000  |
| siva                 | male   | 67000  |
| Arjun                | male   | 98000  |

## Employee Details of VCE After applying Grade filter

| Name of the Employee | Gender | Salary |
|----------------------|--------|--------|
| Sai                  | male   | A      |
| Kruti                | female | A      |
| siva                 | male   | A      |
| Arjun                | male   | A      |

Activate Windows  
Go to Settings to activate Windows.



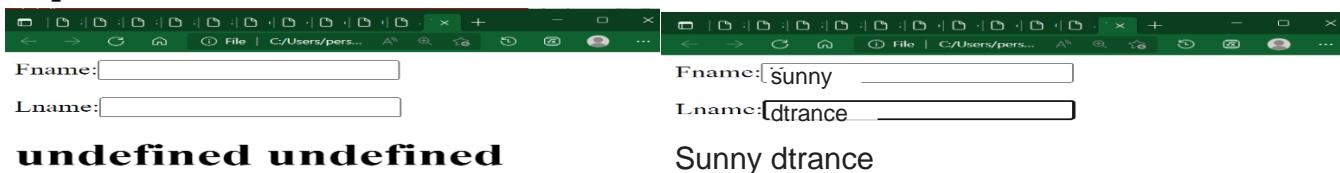
## Week-7

### a. AngularJS application to demonstrate '\$scope'.

#### **Program:**

```
<!DOCTYPE html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.3.14/angular.min.js">
</script>
</head>
<body>
<div ng-app="myApp" ng-controller="myCtrl">
Fname:<input type="text" ng-model="Fname"><br> <br>
Lname:<input type="text" ng-model="Lname"><br>
<h1>{{message()}}</h1> <!-- used in view -->
</div>
<script>
var app = angular.module('myApp', []);
app.controller('myCtrl', function($scope) {
 $scope.message = function(Fname,Lname)
{
return $scope.Fname +" "+$scope.Lname ;
}
}); </script>
</body>
</html>
```

#### **Output**



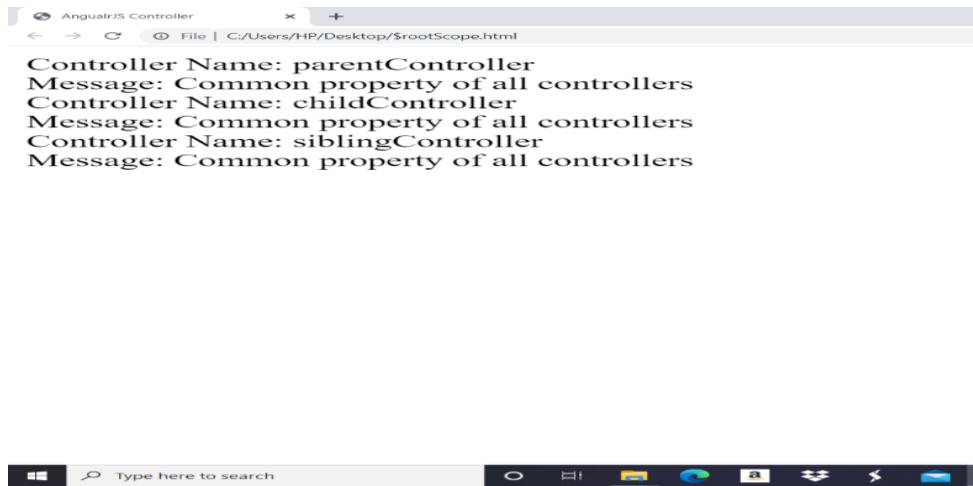
**b. AngularJS application to demonstrate '\$rootscope'.**

**Program:**

```
<!DOCTYPE html>
<head>
<title>AngularJS Controller</title>
<script src="angular.min.js"></script></head>
<body ng-app="myApp">
<div ng-controller="parentController">
Controller Name: {{controllerName}} <br />
Message: {{msg}} <br />
<div ng-controller="childController">
Controller Name: {{controllerName}} <br />
Message: {{msg}} <br /></div></div>
<div ng-controller="siblingController">
Controller Name: {{controllerName}} <br />
Message: {{msg}} <br /></div>
<script>
var app = angular.module('myApp', []);
app.controller('parentController', function ($scope, $rootScope) {
$rootScope.controllerName = "parentController";
$rootScope.msg = "Common property of all controllers ";
});
app.controller('childController', function ($scope) {
$scope.controllerName = "childController";
});
app.controller('siblingController', function ($scope) {
$scope.controllerName = "siblingController";
});
</script></body> </html>
```

**Output:**

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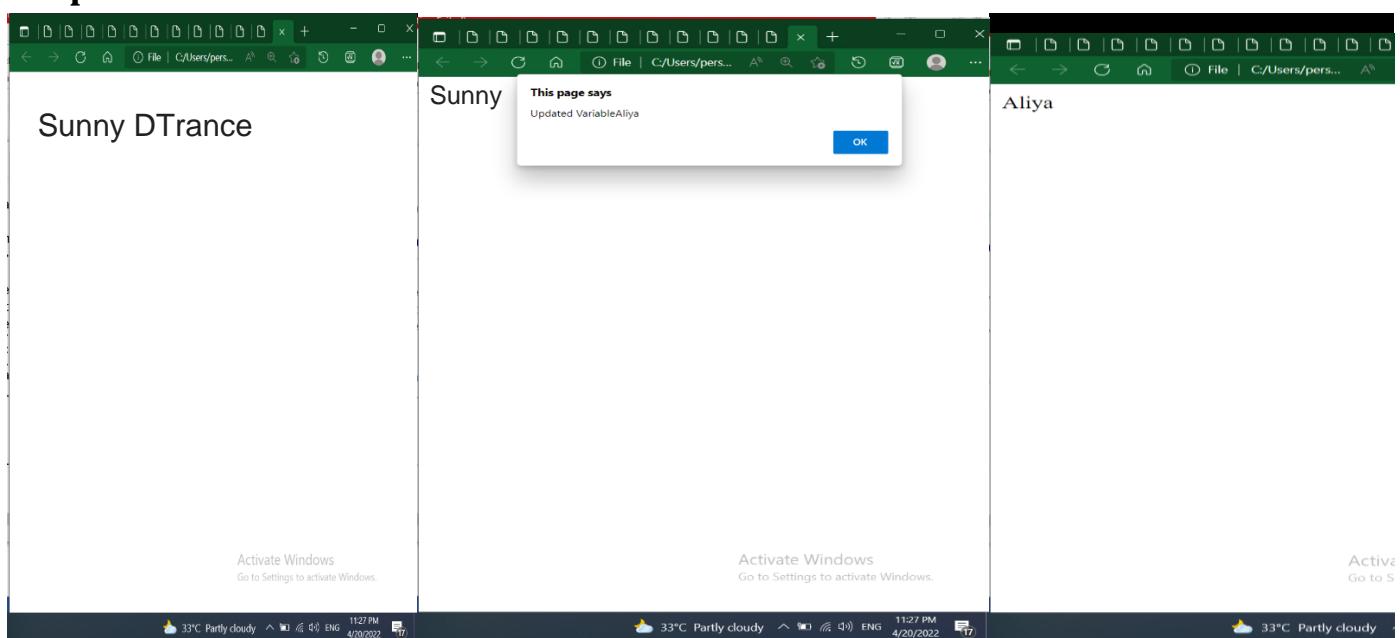


### c. AngularJS application to demonstrate \$scope Life Cycle

#### Program:

```
<html><head>
<script src="angular.min.js"></script></head>
<body ng-app="myapp">
<div ng-controller="mycontroller">
{{ username }} </div>
<script>
var app=angular.module('myapp',[]);
app.controller('mycontroller',function($scope){
$scope.username="Ganesh";
setTimeout(function(){
//setTimeout(function(){
$scope.username="Vicky";
alert("Updated Variable" +$scope.username);
$scope.$apply();
//$.digest();
},2000));
</script></body></html>
```

#### Output:



## Week-8

### a. AngularJS application to demonstrate form validation.

#### Program:

```
<html>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.4.8/angular.min.js">
</script>
<body bgcolor=purple>
<h2> Validate Form</h2>
<form ng-app="myapp" ng-controller="validatectrl" name="myform" >
<p>Username:<br>
<input type="text" name="user" ng-model="user" required>
<span style="color:red" ng-show="myform.user.$dirty && myform.user.$invalid">
<span style="color:red" ng-show="myform.user.$error.required">Username is
required,</span>
</span>
<p>Password:<br>
<input type="pwd" name="pwd" ng-model="pwd" required>
<span style="color:red" ng-show="myform.pwd.$dirty && myform.pwd.$invalid">
<span style="color:red" ng-show="myform.pwd.$error.required">Password is
required,</span>
<span style="color:blue" ng-show="myform.pwd.$error.required">Invalid
Password.</span>
</span>
<p>Address:<br>
<input type="text" name="add" ng-model="add" required>
<span style="color:red" ng-show="myform.add.$dirty && myform.add.$invalid">
<span style="color:red" ng-show="myform.add.$error.required">Address is
required,</span>
<span style="color:red" ng-show="myform.add.$error.required">Invalid
Password.</span>
</span>
<p>PhoneNumber:<br>
<input type="text" name="phno" ng-model="phno" required>
```

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```
<span style="color:red" ng-show="myform.phno.$dirty && myform.phno.$invalid">
<span style="color:red" ng-show="myform.phno.$error.required">PhoneNumber is
required,</span>
<span style="color:red" ng-show="myform.phno.$error.required">Invalid
Password.</span>
</span>
<p>
<input type="submit" >
</p>
</form>
<script>
var app=angular.module("myapp",[]);
app.controller("validatectrl",function($scope){
$scope.user="";
$scope.pwd="";
$scope.add="";
$scope.phno="";
});
</script>
</body>
</html>
```

### Output:

VALID.html

Validate Form

Username:  Username is required.

Password:  Password is required, Invalid Password.

Address:  Address is required, Invalid Password.

PhoneNumber:  PhoneNumber is required, Invalid Password.

Submit

events.html

www.bing.com

Validate Form

Username:  Sunny

Password:  maheen123

Address:  Sultanapilly

PhoneNumber:  9848712012

Submit

**b. AngularJS application to demonstrate custom form validation.****Program:**

```
<!DOCTYPE html>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js">
</script>
<body ng-app="developapp">
<form name="form1">
Username: <input name="username" required><br><br>
Age: <input name="usage" ng-model="usage" required app-directive>
</form>
<p>The input's valid state is:</p>
<h1>{{form1.usage.$valid}}</h1>
<script>
var app = angular.module('developapp', []);
app.directive('appDirective', function() {
    return {
        require: 'ngModel',
        link: function(scope, element, attr, mCtrl) {
            function myValidation(value) {
                if (value >= 18) {
                    mCtrl.$setValidity('charE', true);
                } else {
                    mCtrl.$setValidity('charE', false);
                }
                return value;
            }
            mCtrl.$parsers.push(myValidation);
        }
    };
}); </script>
<p>The input field must have user age greater than 18 to be considered valid for voting.</p>
</body>
</html>
```

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## Output:



Username:

Age:

The input's valid state is:

**false**

The input field must have user age greater than 18 to be considered valid for voting.

Activate Windows  
Go to Settings to activate Windows.



Username:

Age:

The input's valid state is:

**true**

The input field must have user age greater than 18 to be considered valid for voting.

Activate Windows  
Go to Settings to activate Windows.



### c. AngularJS application to demonstrate custom model update trigger

#### Program:

```
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.0/angular.min.js">
</script>
<script>
  var app = angular.module("app", []);
  app.controller("CustomTriggerController", ["$scope", function ($scope) {
    $scope.PD = {};
  }]);
</script>
<div ng-app="app" ng-controller="CustomTriggerController">
<form name="myForm">
<p>
  Username: <input type="text" ng-model="PD.username" required
  ng-model-options="{updateOn : 'blur'}" /> </p>
<p>
  Password: <input type="password" ng-model="PD.password" required
  ng-model-options="{updateOn : 'blur'}" /></p>
<p>
  email: <input type="email" ng-model="PD.email" required
  ng-model-options="{updateOn : 'default blur'}" /></p>
<p>
  Address: <input type="text" ng-model="PD.address" required
  ng-model-options="{updateOn : 'default blur'}"/>
</p>
</form>
<hr />
<b>Username:</b> {{PD.username}} <br />
<b>Password:</b> {{PD.password}} <br />
<b>Email ID:</b> {{PD.email}} <br />
<b>Address:</b> {{PD.address}}
</div>
```

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## Output:

|  |  |
|--|--|
| <input type="text" value="Username:"/> | <input type="text" value="Username: sunny"/>         |
| <input type="text" value="Password:"/> | <input type="password" value="*****"/>               |
| <input type="text" value="email:"/>    | <input type="text" value="sunnydtrance@gmail.com"/>  |
| <input type="text" value="Address:"/>  | <input type="text" value="Sultanpally, Shamshabad"/> |

**Username:**  
**Password:**  
**Email ID:**  
**Address:**

**Username:** sunny  
**Password:** sunnydtrance  
**Email ID:** sunnydtrance@gmail.com  
**Address:** Sultanpally, Shamshabad



## Week-9

### a. AngularJS application to access data from server using \$http service.

#### Program:

```
<!DOCTYPE html>
<head>
<title>Angular JS Includes</title>
<style>
table, th , td {
    border: 1px solid grey;
    border-collapse: collapse;
    padding: 5px;
}
table tr:nth-child(odd) {
    background-color: #f2f2f2;
}
table tr:nth-child(even) {
    background-color: #ffffff;
}
</style> </head>
<body>
<h2>AngularJS Sample Application</h2>
<div ng-app = "" ng-controller = "employeeController">
<table>
<tr>
<th>Name</th>
<th>Age</th>
<th>Salary</th>
</tr>
<tr ng-repeat = "employee in employees">
<td>{{ employee.Name }}</td>
<td>{{ employee.Age }}</td>
<td>{{ employee.Salary }}</td>
</tr>
```

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```
</table>
</div>
<script>
    function employeeController($scope,$http) {
        var url = "data.txt";

        $http.get(url).success( function(response) {
            $scope.employees = response.records;
        });
    }
</script>
<script src="http://ajax.googleapis.com/ajax/libs/angularjs/1.2.15/angular.min.js">
</script> </body> </html>
```

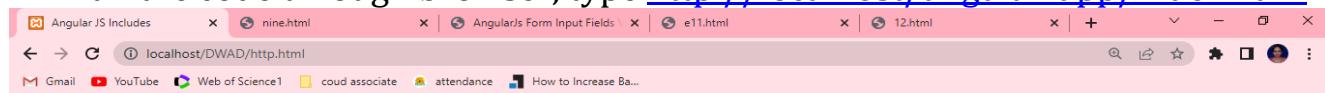
**data.txt file:**

```
{ "records": [
    {
        "Name" : "Mahesh Sharma",
        "Age" : 25,
        "Salary" : "20000" },
    {
        "Name" : "Rohan Malik",
        "Age" : 20,
        "Salary" : "22000" },
    {
        "Name" : "Robert Petro",
        "Age" : 45,
        "Salary" : "67000" },
    {
        "Name" : "Jullia Roberts",
        "Age" : 21,
        "Salary" : "55000"
    } ]}
```

## Output:

### Steps to get output:

1. Install XAMPP server.
2. Start Apache Server and MySQL service.
3. Deploy the .html and .txt file in htdocs folder.
4. Run the code through browser, type [http://localhost/angular\\_app/index.html](http://localhost/angular_app/index.html)



### AngularJS Sample Application

| Name           | Age | Salary |
|----------------|-----|--------|
| Mahesh Sharma  | 25  | 20000  |
| Rohan Malik    | 20  | 22000  |
| Robert Petro   | 45  | 67000  |
| Jullia Roberts | 21  | 55000  |

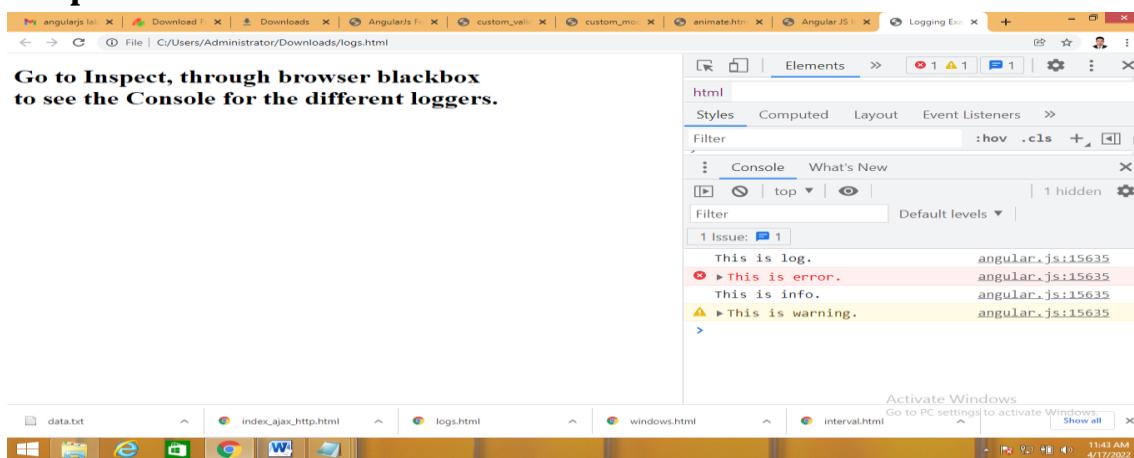


## b. AngularJS application to demonstrate \$log service.

### Program:

```
<!DOCTYPE html>
<head>
<title>Logging Example in AngularJS</title>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.0/angular.min.js">
</script>
<script>
var app = angular.module('myApp', [])
app.controller("myController", function ($log) {
    $log.log('This is log.');
    $log.error('This is error.');
    $log.info('This is info.');
    $log.warn('This is warning.');
    $log.debug('This is debugging.');
});
</script>
</head>
<body ng-app="myApp">
<form id="form1">
<div ng-controller="myController">
<p> <h1> Go to Inspect, through browser blackbox <br/>
to see the Console for the different loggers.
</form> </body> </html>
```

### Output:



## Week-10

### a. AngularJS application to demonstrate \$interval service.

#### **Program:**

```
<!DOCTYPE html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.0/angular.min.js">
</script> </head>
<body ng-app="myApp">
<div ng-controller="myController">
    Counter value: {{counter}}
</div>
<script>
    var myApp = angular.module('myApp', []);
    myApp.controller("myController", function ($scope, $interval) {
        $scope.counter = 0;
        var increaseCounter = function () {
            $scope.counter = $scope.counter + 1;
        }
        $interval(increaseCounter, 1000);
    });
</script></body></html>
```

#### **Output:**



Counter value: 7



## b. AngularJS application to demonstrate \$window service.

### Program:

```
<!DOCTYPE html>
<head>
  <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.0/angular.min.js">
  </script>
</head>
<body ng-app="myApp" ng-controller="myController">
  <button ng-click="DisplayAlert('Hello World!')>Display Alert</button>
  <button ng-click="DisplayPrompt()>Display Prompt</button>
<script>
  var myApp = angular.module('myApp', []);
  myApp.controller("myController", function ($scope, $window) {
    $scope.DisplayAlert = function (message) {
      $window.alert(message);
    }
    $scope.DisplayPrompt = function () {
      var name = $window.prompt('Enter Your Name');
      $window.alert('Hello ' + name);
    }
  });
</script> </body> </html>
```

### Output:

