## Web Technologies Module 5,6 Assignment 4

### Atman Shastri, FYMCA-C, 182

1. Aim:

```
Write a program to demonstrate Angular JS Number and String Expression.
       Theory:
       Using Expressions "{{ }}" to demonstrate Numbers & String in angular
       Code:
<html>
<head>
       <title> 1_directives.html</title>
</head>
<body>
   <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"</pre>
type="text/javascript"> </script>
   <div ng-app="" ng-init="age=16;price=10;quantity=5">
       Name: <input type="text" ng-model="name"/>
       {{ "Age = " + age }}
       p{{"5+5 = " + 5+5}}
       {{ "Total = " + price * quantity }}
</div>
</body>
```

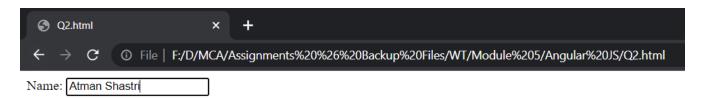
#### Output:

</html>

Write a program to insert the user name in the textbox and greet the user with a welcome message on the same page.

Theory: To show the dynamic nature of Angular

#### Output:



Welcome to this Angular webpage Atman Shastri

Write a program to create an array of your favourite food items and display it in list Theory:

To understand the use of ng-repeat directive

```
Code:
<html>
   <head>
             </head>
   <body>
       <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"
type="text/javascript"></script>
       <div ng-app="" ng-init="names=['Khichdi','Salad','Curd','Spinach']">
          {{x}}
          </div>
   </body>
</html>
```



- Khichdi
- Salad
- Curd
- Spinach

4. Aim: Write a program to display a list of terms and conditions after checking "Yes I Agree" it will enable "Install" Button. Theory: To understand the use of ng-if directive Code: <html> <head></head> <body> <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js" type="text/javascript"> </script> <body ng-app> <h1>Terms and policies</h1> You will click the I agree button You will be there for sure You will listen carefully Click me: <input type="checkbox" ng-model="checked"></checkbox> <input type="submit" value="install" ng-if="checked"/> </body> </html>

### **Output:**



### Terms and policies

- 1. You will click the I agree button
- 2. You will be there for sure
- 3. You will listen carefully

Click me: ✓ install

Write a program to accept the values from the user to calculate simple interest by clicking on a button it will display an answer.

Theory:

To understand the use of ng-click directive

Code:

← → C ① File   F:/D/MCA/Assignments%20%26%20Backup%20F
Enter Principal: 100
Enter Years: 1
Interest rate: 2
Calculate Interest Simple interest is 2

Write a program to demonstrate module and controller.

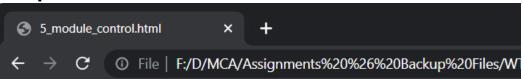
Theory

To learn how to create application and controller in script tag in order add functionality directly in HTML in angular js

Code:

```
<html>
    <head></head>
    <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"</pre>
type="text/javascript"> </script>
    <body ng-app="myapp" ng-controller="myctrl">
       {{"First Name: " + firstname}}
        <br><{br>>{br><br>}{{"Last Name: " + lastname}}
    </body>
    <script>
        var app= angular.module("myapp",[])
        app.controller("myctrl",function($scope){
            $scope.firstname = "Sandhya";
            $scope.lastname = "Santosh";
        });
    </script>
</html>
```

### **Output:**



First Name: Sandhya

Last Name: Santosh

Write a program to create Employee object in the controller and also create properties like name, address and salary.

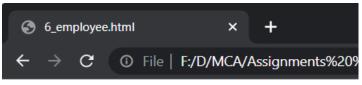
Theory:

To learn how to create and use a collection of objects within a controller and how to write it in an expression in angular js as well

```
Code:
```

```
<html>
    <head></head>
    <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"</pre>
type="text/javascript"> </script>
    <body ng-app="myapp" ng-controller="myctrl">
        <div ng-repeat="emp in Employee">
            Name: {{emp.Name}}
            Address: {{emp.Address}}
            Salary: {{emp.Salary}}
        </div>
    </body>
    <script>
        var app=angular.module("myapp",[])
        app.controller("myctrl",function($scope){
            $scope.Employee=[{Name:"Rakesh",Address:"Mulund",Salary:100},
            {Name: "Sandhya", Address: "Kandivali", Salary: 450},
            {Name: "Souleh", Address: "Malad", Salary:350}
        });
    </script>
</html>
```

### Output:



Name: Rakesh

Address: Mulund

Salary: 100

Name: Sandhya

Address: Kandivali

Salary: 450

Name: Souleh

Address: Malad

Salary: 350

Write a program to enter Book Details like Book Name (Use Uppercase only), Price (In Rupees), Current Date (in YYYY/MM/DD) use different filters and print data on click event.

Theory:

To learn about filters in angular js as well the "new Date()" in built method in angular js

```
Code:
<html>
    <head></head>
    <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"</pre>
type="text/javascript"> </script>
    <body ng-app="myapp" ng-controller="myctrl">
        Enter Name: <input type="text" ng-model="name">
        Enter Amount: <input type="text" ng-model="amount">
        <input type="submit" value="show" ng-click="data()">
        <br><br>< Name: {{ n | uppercase }}</pre>
        <br><br>< Amount: {{amt | currency:"₹ ":4}}</pre>
        <br>< Date: {{date | date: "yyyy/MM/dd" }}</pre>
    </body>
    <script>
        var app= angular.module("myapp",[]);
        app.controller("myctrl",function($scope){
            $scope.data = function(){
                $scope.n=$scope.name;
                $scope.amt=$scope.amount;
                $scope.date= new Date();
            }
        });
    </script>
```

### **Output:**

</html>

3 1_filter.html	×	+		
← → C	① File   F:/D/MCA/A	ssignments%20%2	26%20Backup%20Files/WT/	Module%20
Enter Name: Atman		Enter Amount:	10000	show

Name: ATMAN

Amount: ₹ 10,000.0000

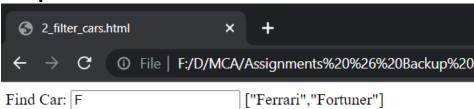
Date: 2023/02/16

Write a program to generate an array of your favourite cars and also provide searching functionality.

#### Theory:

To learn about the filter filter which is used to select and return a subset of collection of items matching the comparator or an expression itself in the angular is code

Code:



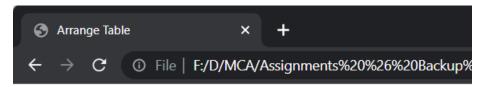
Write a program to generate student object which will hold at least 5 student data (Id, Name). Display all the data in tabular format and also provide ascending sort facility in column header.

#### Theory:

To create a function in app controller as well use the filter 'orderBy' in combination with ngrepeat and ng-click in order to sort columns ascending order based on click on the column headers

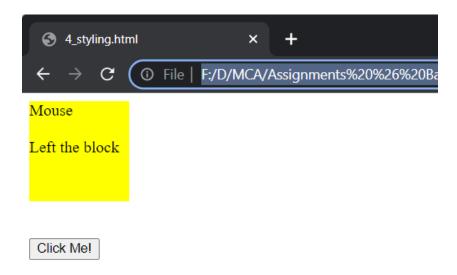
```
Code:
```

```
<html>
   <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"</pre>
type="text/javascript"> </script>
   <title>Arrange Table</title>
   <body ng-app="myapp" ng-controller="myctrl">
      Name
             Roll No
         {{s.Name}}
             {{s.rollno}}
         </body>
   <script>
      angular.module("myapp",[]).controller("myctrl",function($scope){
         $scope.students = [{Name: "Sandhya", rollno:100},
                          {Name: "Ayesha", rollno:15},
                          {Name: "Rita", rollno:31},
                          {Name: "Seema", rollno:41},
                          {Name: "Mahima", rollno: 101},
                          {Name: "Sana", rollno: 151},
                          {Name: "Reema", rollno:110},
                          {Name: "Ayushi", rollno:1}];
                          $scope.orderby=function(x){
                          $scope.orderbyme=x;
       }
      });
   </script>
</html>
```



Roll No	
1	
15	
31	
41	
100	
101	
110	
151	

```
11. Aim:
        Write a program to demonstrate mouse events in angular.js
        To simulate mouse events and change color of a div using ng-mouseenter and ng-
        mouseleave
       Code:
<html>
    <title></title>
    <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"</pre>
type="text/javascript"> </script>
    <head>
         <style>
                 .redblock{
                      height: 100px;
                      width: 100px;
                      background-color: red;
                 }
                 .yellowblock{
                      height: 100px;
                      width: 100px;
                      background-color: yellow;
                 }
        </style>
    </head>
    <body ng-app>
        <div ng-class="{redblock:enter,yellowblock:exit}"</pre>
        ng-mouseenter="enter=true;exit=false"
        ng-mouseleave="enter=false;exit=true">
             Mouse<span ng-show="enter">
                 <br><br><br>>
                 Entered</span>
                 <br><br><br>>
             <span ng-show="exit">Left the block</span>
        </div>
        <br><br><br>>
        <button type="button">Click Me!</button>
        </br><br>
    </body>
</html>
```





Write a program to select any one subject from the drop-down list and display the content of the selected subject (use switch directive)

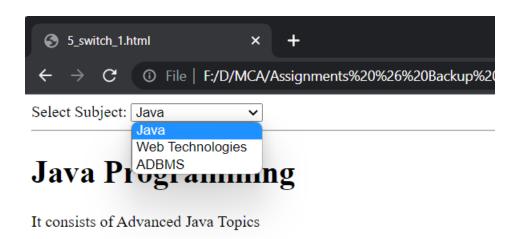
Theory:

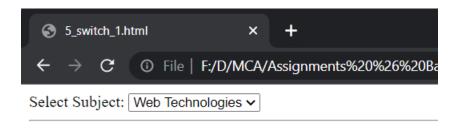
To learn and use ng-switch and ng-switch-when along with the option tag in html

```
Code:
```

```
<html>
<title></title>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"</pre>
type="text/javascript"> </script>
<head></head>
<body ng-app>
    <form>
    Select Subject:
    <select ng-model="subject">
        <option value=""> Java </option>
        <option value="wt"> Web Technologies </option>
        <option value="adms"> ADBMS </option>
        <!-- <option value="ai"> Artificial Intelligence </option> -->
    </select>
    <hr>
    <div ng-switch="subject">
        <div ng-switch-default>
            <h1>Java Programming</h1>
            It consists of Advanced Java Topics
        </div>
        <div ng-switch-when="wt">
            <h1>Web Technologies</h1>
            It consists of Node Js and Angular JS
        </div>
        <div ng-switch-when="adms">
            <h1>ADBMS</h1>
            It consists of Data Warehousing and Management
        </div>
    </div>
    <hr>>
</form>
</body>
</html>
```

# **Output:**





# Web Technologies

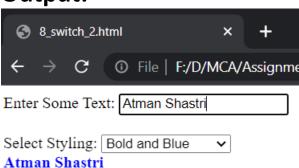
It consists of Node Js and Angular JS

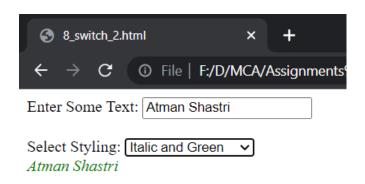
Write a program to type text in a textbox provide the functionality of bold, italic and underline and also display color options in dropdown list Theory:

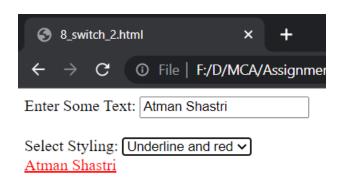
To learn the use of bold, underline and italics html tags "b","i","u", and using ng-switch in combination of style html attribute

```
Code:
```

```
<html>
<title></title>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"</pre>
type="text/javascript"> </script>
<head></head>
<body ng-app>
    <form >
        Enter Some Text: <input type="text" ng-model="data">
        <br><br><br>>
        Select Styling:
        <select ng-model="styling">
            <option value=""> Bold and Blue </option>
            <option value="i"> Italic and Green </option>
            <option value="u"> Underline and red </option>
        </select>
        <div ng-switch="styling">
            <b ng-switch-default style="color:blue" >
            {{data}}</b>
            <i ng-switch-when="i" style="color:green">
            {{data}}</i>
            <u ng-switch-when="u" style="color:red">
            {{data}}</u>
        </div>
    </form>
</body>
</html>
```







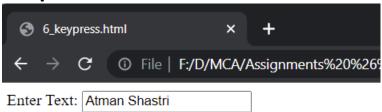
Write a program to demonstrate how many characters are entered in the textbox. (use ng-keypress)

Theory:

To learn and use keyboard events, ng-keypress directive to log the number of keypresses and update it dynamically on the webpage

Code:

### **Output:**



# **Key Presses: 13 times**