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Class: TYCS

Subject: Adavnced Web Programming

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PRACTICAL JOURNAL

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**K.J.Somaiya College of Science and Commerce**

Vidyavihar, Mumbai-400077

**Autonomous- Affiliated to University of Mumbai**

**Department of Computer Science**

**CERTIFICATE**

*This is to certified that the experimental work as entered in this journal is as per syllabus in **B.Sc Computer Science for Advanced Web Programming** was done in the Computer Science laboratory of K.J.Somaiya College of Science and Commerce by the student*

*Bro/Sis: Dipesh Khichada having Seat No.:2009819 of class **T.Y.B.Sc Computer Science** Semester V during the academic year 2020-2021.*

*No.of Experiments completed \_\_\_\_\_ out of \_\_\_\_\_*

***Course Coordinator of CS Department***

***Date:***

*Sign of Subject In-charge  
Examiner*

*College seal*

*Sign of*

*Date:*

*Date:*

### **Practical-1**

**Q1) Write a program in angular js to display hello world.**

Code:

```
<html>
```

```
<head>
```

```
<title>Angular JS Practical 1.1</title></head>
```

```
<body>
```

```
<script src="angular.min.js"></script>
```

```
<div ng-app="">
```

```
{{ 'Hello ' + 'World' }}
```

```
</div>
```

```
</body>
```

```
</html>
```

### **OUTPUT:**

---

Hello World

**Q2)Write a program in angular js to initialize the number and calculate the cube of the number.**

Code:

```
<html>
```

```
<head>
```

```
<title>Angular JS Practical 1.1</title></head>
```

```
<body>
```

```
<script src="angular.min.js"></script>
```

```
<div ng-app="" ng-init="a=18;">
```

```
Cube of {{ a }} is {{ a*a*a }}
```

```
</div>
```

```
</body>
```

```
</html>
```

### **OUTPUT:**

Cube of 18 is 5832

**Q3)Write a program in angular js to initialize the array and display the value at the array position number 2.**

Code:

```
<html>

<head>

<title>Angular JS Practical 1.1</title></head>

<body>

<script src="angular.min.js"></script>

<div ng-app="" ng-init="series=['Money Heist','Dark','Rick and Morty','Breaking
bad']">

Movie at index 2 is {{series[2]}}

</div>

</body>

</html>
```

**OUTPUT:**

Movie at index 2 is Rick and Morty

**Q4)Write a program in angular js to initialize the array with object . The Object consist of venue and country . Display All the value of the array in the unordered list .**

Code:

```
<html>

<head>

<title>Angular JS Practical 1.4</title></head>

<body>

<script src="angular.min.js"></script>

<div                                ng-app=""                                ng-
init="Course_events=[{ 'course':'Java','country':'england'},{ 'course':'python','countr
y':'South africa'},
{ 'course':'C++','country':'America'},{ 'course':'CSS','country':'India'},
{ 'course':'AngularJS','country':'Russia'}]">

<ul>

<li ng-repeat="x in Course_events">

{{ x.course + ' - ' + x.country }}

</li>

</ul>

</div>

</body>

</html>
```

## OUTPUT:

---

- Java - england
- python - South africa
- C++ - America
- CSS - India
- AngularJS - Russia

## Practical-2

**Q1) Write a program in angular js to accept first name and last name from user and display full name using ng-model.**

Code:

```
<html ng-app=""><head>
<script src="angular.min.js">
</script></head>
<body>
<input ng-model="first" type="text"/>
<input ng-model="second" type="text"/>
full name is: {{first+' '+second}}
</body>
</html>
```

**OUTPUT:**

---

<input type="text" value="Dipesh"/>	<input type="text" value="Khichda"/>	full name is: Dipesh Khichda
-------------------------------------	--------------------------------------	------------------------------

**Q2) Write a program in angular js to accept first name from user and display welcome username using ng-bind.**

Code:

```
<html ng-app=""><head>
<script src="angular.min.js">
</script></head>
```

```
<body>
<input ng-model="uname" type="text"/>
<p style="color: red;" ng-bind="'Welcome '+uname"></p>
</body>
</html>
```

### OUTPUT:

---

Welcome Dipesh

**Q3) Write a program in angular js to accept the car color and brand name of the car . Create the function and initialize the value of color and name .Create a function which will display car name and brand name of the car. Use ng-controller.**

### Code:

```
<!DOCTYPE html>
<html lang="en">

<head>

    <script src="angular.min.js"></script>

</head>

<body ng-app="myApp" ng-controller="myController">
```



```
<div>

  <label>Enter Car Brand</label>

  <input type="text" ng-model="brand">

</div>

<br />

<br />

<div>

  <label>Enter Car Color</label>

  <input type="text" ng-model="color">

</div>

<br />

<br />

<div>

  <h3>The Brand Name is : {{brand}} and Car Color is : {{color}}</h3>

  <h3>{{carname(brand,color)}}</h3>

</div>

<script>

  var myapp = angular.module("myApp", []);

  myapp.controller("myController", function ($scope) {

    $scope.brand = "BMW";

    $scope.color = "White";
```

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

### OUTPUT:

---

Enter Car Brand

Enter Car Color

**The Brand Name is : Ferrari and Car Color is : yellow**

**Q4) Write a program in angular js , display two button with the name show and hide and based on the click of button show or hide the text accordingly . Use ng-show and ng-hide method.**

### Code:

```
<html>  
<head>  
  <script src="angular.min.js"></script>  
</head>  
  
<body ng-app="myapp" ng-controller="myctrl">  
  <button ng-click="myFunc()">{{ read }}</button><br>  
  <div ng-show="showMe" class="ng-hide">  
<h1 style="color:red;">Hello World</h1>
```

```
</div>
```

```
<script>
```

```
var app = angular.module('myapp', []);  
app.controller('myctrl', function($scope) {  
    $scope.read = "READ MORE";  
    $scope.showMe = false;  
    $scope.myFunc = function() {  
        if ($scope.read=="READ MORE")  
        {  
            $scope.read="READ LESS";  
        }else  
        {  
            $scope.read="READ MORE";  
        }  
        $scope.showMe = !$scope.showMe;  
    }  
});
```

```
</script>
```

```
</body>
```

```
</html>
```

**OUTPUT:**

---

READ LESS

# Hello World

## Practical-3

**Q1) Write a program in angular js to accept first name and last name from user and on click button display the first name and last name**

**Code:**

```
<html ng-app="myapp" ng-controller="myctrl">

<head>

    <title>ng-show</title>

    <script src="angular.min.js"></script>

</head>

<body>

    <input type="text" ng-model="n1">

    <input type="text" ng-model="n2">

    <input type="button" value="Show" ng-click="Show1()"/><br>

    Name is {{message}}

</body>

<script>

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

```
app.controller('myctrl',function($scope){  
    $scope.Show1 = function(){  
        $scope.message= $scope.n1 + ' ' +$scope.n2;  
    }  
});  
</script>
```

### OUTPUT:

---

<input type="text" value="Dipesh"/>	<input type="text" value="Khichda"/>	<input type="button" value="Show"/>
-------------------------------------	--------------------------------------	-------------------------------------

Name is Dipesh Khichda

**Q2) Write a program in angular js to display table of sports with the column sports name , total number of like and total number of dislike and like and dislike button on click of like button its should increment the number of like or dislike.initialize the table data in js file**

### Code:

```
<html>  
  
<script src="angular.min.js"></script>  
  
<body ng-app="myModule" ng-controller="mycont">  
  
<table border="1">  
  
<thead>  
  
<tr>  
  
<th>Name</th>  
  
<th>like</th>
```

```

<th>Dislike</th>

<th>like/dislike</th>

</tr>

</thead>

<tbody>

<tr ng-repeat="sport in sports">

<td>{{ sport.name }}</td>

<td>{{ sport.likes }}</td>

<td>{{ sport.dislikes }}</td>

<td>

<input type="button" value="like" ng-click="inclikes(sport)">

<input type="button" value="dislike" ng-click="incdislikes(sport)">

</td>

</tr>

</tbody>

</table>

</body>

<script>

var myApp=angular.module("myModule", []);

myApp.controller("mycont", function($scope){

var sports =[

{name:"cricket", likes:0, dislikes:0},

```

```

{name:"football", likes:0, dislikes:0},
{name:"tennis", likes:0, dislikes:0},
{name:"basketball", likes:0, dislikes:0},
];
$scope.sports=sports;

$scope.inlikes = function(sport){
sport.likes++;
}

$scope.incdislikes = function(sport){
sport.dislikes++;
}

});
</script>
</html>

```

## OUTPUT:

Name	like	Dislike	like/dislike	
cricket	3	4	like	dislike
football	4	3	like	dislike
tennis	2	1	like	dislike
basketball	3	3	like	dislike

## Practical-4

**Q1)Write a program in angular js to accept first name,salary per day and total number of working days , display first name with upper case filter and**

**the total salary(salary per day\*total no. of working days) use currency filter  
(dont use ng-click)**

**Code:**

```
<html ng-app="MyApp">

<head>

<title>filter</title>

<script src="angular.min.js"></script>

</head>

<body ng-controller="MyCtrl">

<label>Name</label><input type="Text" ng-model="fname"/><br>

<label>Salary per Day</label><input type="Number" ng-model="sal"/><br>

<label>Total Working day</label><input type="Number" ng-model="num"/><br>

Name is - {{fname|uppercase}} Total Salary is {{(sal*num)| currency:"₹"}}

<script>

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

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

        });

</script>

</body>

</html>
```

**OUTPUT:**



---

Name   
Salary per Day   
Total Working day   
Name is - DIPESH Total Salary is ₹25,000.00

**Q2)Write a program in angular js to display table with the column name id , title, author and price . initialize the table data in js file . create a dropdown menu with the option any,id , title, author and price and a search input box . on selection of the dropdown and value entered in the input search box it should display the data into the table.**

**Code:**

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
  <script src="angular.min.js"></script>
```

```
  <title>Hello World</title>
```

```
  <link rel="stylesheet"
    href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css"
    integrity="sha384-
    MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdk
    nLPMO" crossorigin="anonymous">
```

```
  <style>
```

```
    body {
```

```
      margin-top: 40px;
```

```
}
```

```
.center {  
    margin-left: auto;  
    margin-right: auto;  
}
```

```
select {  
    width: 200px;  
}
```

```
div {  
    display: flex;  
    flex-direction: row;  
    width: 400px;  
}
```

```
label {  
    margin-right: 20px;  
}
```

```
input {  
    width: 200px;
```

```

    }
</style>
</head>

<body ng-app="myapp" ng-controller="myctrl">
  <div class="col-lg-6 center custom">
    <div> <label for="searchBy">Search By</label>
      <select name="books" id="books" ng-model="searchby">
        <option value="$">Any</option>
        <option value="id">ID</option>
        <option value="title">Title</option>
        <option value="author">Author</option>
        <option value="price">Price</option>
      </select></div>

    <div>
      <label for="name">Search</label>
      <input type="text" ng-model="search[searchby]">
    </div>

  </div>

  <br>

```

```

<table class="col-lg-6 text-center center table table-striped">

  <thead>

    <tr>

      <th scope="col">id</th>

      <th scope="col">Title</th>

      <th scope="col">Author</th>

      <th scope="col">Price</th>

    </tr>

  </thead>

  <tbody>

    <tr class="text-center" ng-repeat="book in book_list| filter:search">

      <td>{{ book.id }}</td>

      <td>{{ book.title }}</td>

      <td>{{ book.author }}</td>

      <td>{{ book.price }}</td>

    </tr>

  </tbody>

</table>

<script>

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

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

    $scope.search = { };

    $scope.searchby = '$';
  });

```

```
$scope.book_list = [{ "id": 1, "title": "Hobbit", "author": "Aman", "price":  
700 },  
  
  { "id": 2, "title": "To Kill a Mockingbird", "author": "Harper Lee", "price":  
400 },  
  
  { "id": 3, "title": " 1984", "author": "George Orwell", "price": 650 },  
  
  { "id": 4, "title": "Harry Potter and the Philosopher's Stone", "author": "J.K.  
Rowling", "price": 900 },  
  
  { "id": 5, "title": "The Lord of the Rings", "author": "J.R.R. Tolkien",  
"price": 1000 }]  
  
  });
```

```
</script>
```

```
<script src="https://Code.jquery.com/jquery-3.3.1.slim.min.js"
```

```
  integrity="sha384-  
q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo  
"
```

```
  crossorigin="anonymous"></script>
```

```
<script
```

```
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.3/umd/popper.min.js"
```

```
  integrity="sha384-  
ZMP7rVo3mIykV+2+9J3UJ46jBk0WLaUAdn689aCwoqbBJiSnjAK/18WvCWPI  
Pm49"
```

```
  crossorigin="anonymous"></script>
```

```
<script
```

```
src="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/js/bootstrap.min.js"
```

```
  integrity="sha384-  
ChfqquxZUCnJSK3+MXmPNIyE6ZbWh2IMqE241rYiqJxyMiZ6OW/JmZQ5stw  
EULTy"
```

```

        crossorigin="anonymous"></script>

</body>

</html>

```

## OUTPUT:

Search By  Search

id	Title	Author	Price
1	Hobbit	Aman	700
2	To Kill a Mockingbird	Harper Lee	400
3	1984	George Orwell	650
4	Harry Potter and the Philosopher's Stone	J.K. Rowling	900
5	The Lord of the Rings	J.R.R. Tolkien	1000

Search By  Search

id	Title	Author	Price
3	1984	George Orwell	650
4	Harry Potter and the Philosopher's Stone	J.K. Rowling	900

**Q3)Write a program in angular js to display the programming language in the ascending order and descending order using filter . initialize the data in js file.**

## Code:

```

<html ng-app="myApp">

<head>

```

```
<title>hello world</title>

<script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></script
>

</head>

<body ng-controller="myCtrl">

  <h1>ORDERBY FILTER </h1>

  <ul>

    <h3> Ascending Order</h3>

    <li ng-repeat=" x in techno | orderBy:'tutorial' ">{{ x.tutorial }}</li>

    <h3> Descending Order</h3>

    <li ng-repeat=" x in techno | orderBy:'-tutorial' ">{{ x.tutorial }}</li>

  </ul>

  <script>

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

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

      $scope.techno = [

        { "tutorial": "HTML" },

        { "tutorial": "Python" },

        { "tutorial": "Java" },

        { "tutorial": "Android" },
```

```
        { "tutorial": "CSS" },  
        { "tutorial": "AngularJS" },  
        { "tutorial": "ReactJs" }  
    ];  
});  
</script>  
</body>  
</html>
```

**OUTPUT:**

## **ORDERBY FILTER**

### **Ascending Order**

- Android
- AngularJS
- CSS
- HTML
- Java
- Python
- ReactJs

### **Descending Order**

- ReactJs
- Python
- Java
- HTML
- CSS
- AngularJS
- Android

Q4)Write a program in angular js to:



## Filter:limitTo

Limit [1,2,3,4,5,6,7,8,9] to:

**Output: [1,2,3]**

Limit ABCDEFGHIJKLMNOPQRSTUVWXYZ to:

**Output: ABC**

Limit 12345678 to:

**Output: 123**

### Code:

```
<html ng-app="myApp">
```

```
<head>
```

```
  <title>hello world</title>
```

```
  <script  
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></script  
>
```

```
</head>
```

```
<body ng-controller="myCtrl">
```

```
  <h1>Filter:limitTo</h1>
```

```
  <div>Limit { { numArray } } to: <input type="number" ng-model="numLim">
```

```
    <h1>OUTPUT: { { numArray|limitTo:numLim } }</h1>
```

</div>

<div>Limit {{ alphaArray }} to: <input type="number" ng-model="alphaLim">

<h1>**OUTPUT:** {{ alphaArray|limitTo:alphaLim }}</h1>

</div>

<div>Limit {{ strArray }} to: <input type="number" ng-model="strLim">

<h1>**OUTPUT:** {{ strArray|limitTo:strLim }}</h1>

</div>

<script>

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

app.controller('myCtrl', function (\$scope) {

    \$scope.numArray = [1, 2, 3, 4, 5, 6, 7, 8, 9

];

    \$scope.alphaArray = 'ABCDEFGHIJKLMNOPQRSTUVWXYZ'

    \$scope.strArray = '123456789'

});

</script>

</body>

</html>

**OUTPUT:**

---

## Filter:limitTo

Limit [1,2,3,4,5,6,7,8,9] to:

**Output: [1,2,3,4,5,6]**

Limit ABCDEFGHIJKLMNOPQRSTUVWXYZ to:

**Output: ABCDEFGHIJK**

Limit 123456789 to:

**Output: 1234**

### Practical-5

#### Q1) Use of ng-include

Create html file for asking user to enter id and name. Create table for input field and displaying value. Initialize the value for ID and name. in third row Display the same.

Create another file index.html , use nginclude to include table file in index.html.

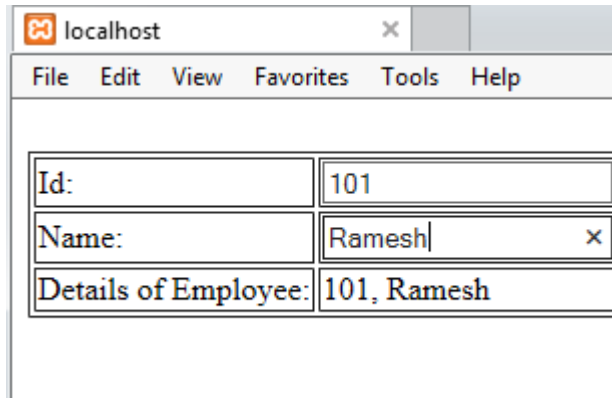
Also initialize the value from controller (id and name)

Initial value:



Id:	20
Name:	abc
Details of Employee:	20, abc

After changing:



Id:	101
Name:	Ramesh
Details of Employee:	101, Ramesh

Code:

```
<html>
```

```
<head>
```

```
<title>Angular JS Includes</title>
```

```
<script src = "angular.min.js">
```

```
</script>
```

```
<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>Student Details</h2>  
  
    <div ng-app = "mainApp" ng-controller = "studentController">  
  
        <table border = "1">  
  
            <tr>  
  
                <td>Enter first name:</td>  
  
                <td><input type = "text" ng-model = "student.id"></td>  
  
            </tr>  
  
            <tr>  
  
                <td>Enter ID: </td>  
  
                <td><input type = "text" ng-model = "student.Name"></td>  
  
            </tr>
```

```
<tr>

  <td>Enter Name: </td>

  <td>{{ student.result() }}</td>

</tr>

</table>

</div>
```

```
<script>

  var mainApp = angular.module("mainApp", []);


  mainApp.controller('studentController', function($scope) {

    $scope.student = {

      id: "1",

      Name: "Shreyal",


      result: function() {

        var studentObject;

        studentObject = $scope.student;

        return studentObject.id + " " + studentObject.Name;

      }

    };

  });

</script>
```

</body>

</html>

## OUTPUT:

### Student Details

Enter first name:	<input type="text" value="Dipesh"/>
Enter ID:	<input type="text" value="2009819"/>
Enter Name:	Dipesh 2009819

## Q2) Service

- Create service for calculating cube and square of number. Using both methods(factory and service).
- Create factory service to accept string from user and reverse the string.

### Code:

<html>

<head>

<title>My first AngularJS Service Code</title>

<Script SRC="https://ajax.googleapis.com/ajax/libs/angularjs/1.2.13/angular.js">  
</Script>

<Script>

//Defining Services Using Service

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

app.service('MathService', function()

{

```
this.multiply = function(a, b)
{
  return a * b;
};

app.service('CalculatorService', function(MathService)
{
  this.square = function(a)
  {
    return MathService.multiply(a,a);
  };

  this.cube = function(a)
  {
    return MathService.multiply(a, MathService.multiply(a,a));
  };
});

app.controller('CalculatorController', function($scope, CalculatorService)
{
  $scope.doSquare = function()
  {
    $scope.answer = CalculatorService.square($scope.number);
  }

  $scope.doCube = function()
  {
    $scope.answer = CalculatorService.cube($scope.number);
  }
});
```



```

}
});
</Script>
</head>
<body>
<div ng-app="app">
<div ng-controller="CalculatorController">
Enter a number: <input ng-model="number" type="number">
<button ng-click="doSquare()">X<sup>2</sup></button>
<button ng-click="doCube()">X<sup>3</sup></button>
<div>Answer: {{ answer }}</div>
</div>
</div>
</div>
</body>
</html>

```

## OUTPUT:

---

Enter a number:

Answer: 16

Enter a number:

Answer: 64

**Create factory service to accept string from user and reverse the string.**

**Code:**

[i]P53.html

```
<!DOCTYPE html>
```

```
<html ng-app="filterExample">
```

```
<head>
```

```
<meta charset="utf-8" />
```

```
<meta http-equiv="X-UA-Compatible" content="IE=edge,chrome=1" />
```

```
<title>Reverse String Filter</title>
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0, user-  
scalable=no, minimum-scale=1.0, maximum-scale=1.0" />
```

```
<meta http-equiv="Cache-Control" content="no-cache, no-store, must-revalidate"  
/>
```

```
<meta http-equiv="Pragma" content="no-cache" />
```

```
<meta http-equiv="Expires" content="0" />
```

```
<meta name="author" content="Mayank Patel" />
```

```
<script      data-require="angular.js@1.3.14"      data-semver="1.3.14"  
src="https://Code.angularjs.org/1.3.14/angular.js"></script>
```

```
<link rel="stylesheet" href="style.css" />
```

```
<script src="script.js"></script>
```

```
</head>
```

```
<body>
```

```
<h1>Reverse String Filter</h1>
```

```
<input type="text" id="txtText" name="txtText" ng-model="text"
placeholder="Enter text here" />
```

```
<hr />Reverse String: {{ text | reverse }}
```

```
</body>
```

```
</html>
```

[ii]script.js

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

```
app.filter("reverse", function() {
```

```
  return function(input) {
```

```
    var result = "";
```

```
    input = input || "";
```

```
    for (var i=0; i<input.length; i++) {
```

```
      result = input.charAt(i) + result;
```

```
    }
```

```
    return result;
```

```
  };
```

```
})
```

```
app.filter("reverseSuffix", function() {
```

```
  return function(input, options) {
```

```
    input = input || "";
```

```
    var result = "";
```

```
    var suffix = options["suffix"] || "";
```

```
for (var i=0; i<input.length; i++) {  
    result = input.charAt(i) + result;  
}  
  
if (input.length > 0) result += suffix;  
  
return result;  
};  
});
```

**OUTPUT:**

## Reverse String Filter

---

Reverse String: hsepiD

### Q3) Use of ng-src

**Create a food Menu List using ng-src. Create table which display food image, Menu Name and price.**

**Display atleast 5 Menu.**

**Code:**

```
<!doctype html>
```

```
<html>
```

```
<head>

  <title>Document</title>

  <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></script
>

<script      src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular-
route.js"></script>

</head>

<body>

  <div ng-app="myapp" ng-controller="myctrl">

    <h1>DIPESH RESTAURANT</h1>

    <h2 align="center">MENU</h2>

    <h2>South-Indian</h2>

    <ul ng-repeat="x in menu">

      <li>{{ x.n1 }}</li>

    </ul>

    <h2>Main-Course</h2>

    <ul ng-repeat="x in menu1">

      <li>{{ x.n2 }}</li>

    </ul>

    
```

```

<h2>Starters</h2>

<ul ng-repeat="x in menu2">

    <li>{{ x.n3 }}</li>

</ul>



<h2>Ice-Creams</h2>

<ul ng-repeat="x in menu3">

    <li>{{ x.n4 }}</li>

</ul>



<h2>Drinks</h2>

<ul ng-repeat="x in menu4">

    <li>{{ x.n5 }}</li>

</ul>



</div>

<script>

    angular.module("myapp", []).controller("myctrl",function($scope){

        $scope.menu=[{n1:"dosa"},{n1:"uttapa"},{n1:"Idli-wada"}];

        $scope.menu1=[{n2:"Marathi thali"},{n2:"Gujarati thali"}];

        $scope.menu2=[{n3:"panner-chilli"},{n3:"Dry-
manchurian"},{n3:"soup"}];

```

```
$scope.menu3=[{n4:"Corneto"},{n4:"Vanilla"},{n4:"Chocolate"},{n4:"Butter-schoch"}];
```

```
$scope.menu4=[{n5:"Tea"},{n5:"Mohitos"},{n5:"Lemonade"}];
```

```
$scope.image1="ajsp51.jfif";
```

```
$scope.image2="ajsp52.jfif";
```

```
$scope.image3="ajsp53.jfif";
```

```
$scope.image4="ajsp54.jfif";
```

```
$scope.image5="ajsp55.jfif";
```

```
});
```

```
</script>
```

```
</body>
```

```
</html>
```

**OUTPUT:**

# DIPESH RESTAURANT

## MENU

### South-Indian

- dosa
- uttapa
- Idli-wada





## Main-Course

- Marathi thali
- Gujarati thali



## Starters

- panner-chilli
- Dry-manchurian
- soup



**Q4) Use of router**

**Crate following pages**

**Technical Language**

- **Home Page**(Display institute name and list of language example:java,html,php(atleast 3))
- **Html Page**(Display some information or image)
- **Same for other two pages.**

**Code:**

i.home.html

```
<table>

  <tr>

    <th>Insistute</th>

    <th>Language</th>

  </tr>

  <tr>

    <td>Somaiya</td>

    <td>ANGULARJS</td>

  </tr>

  <tr>

    <td>Khalsa College</td>

    <td>JAVA</td>

  </tr>

  <tr>

    <td>SIES</td>

    <td>C++</td>

  </tr>
```

</table>

ii.image.html



iii.video.html

<iframe width="1348" height="497"  
src="https://www.youtube.com/embed/r6zIGXun57U" frameborder="0"

allow="accelerometer; autoplay; clipboard-write; encrypted-media; gyroscope;  
picture-in-picture"

allowfullscreen></iframe>

iv.index.html

</html>

<!DOCTYPE html>

<html>

<script  
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></script  
>

<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular-  
route.js"></script>

<body ng-app="myApp">

<p><a href="#!home">Home</a></p>

<p><a href="#!about">About</a></p>

<p><a href="#!video">Video</a></p>

```
<p><a href="#!image">Image</a></p>
```

```
<div ng-view></div>
```

```
<h1>
```

Developer: Dee07

```
</h1>
```

```
<script>
```

```
var app = angular.module("myApp", ["ngRoute"]);
```

```
app.config(function ($routeProvider) {
```

```
    $routeProvider
```

```
        .when("/home", {
```

```
            templateUrl: "home.html",
```

```
        })
```

```
        .when("/about", {
```

```
            templateUrl: "about.html",
```

```
        }).when("/video", {
```

```
            templateUrl: "video.html",
```

```
        }).when("/image", {
```

```
            templateUrl: "image.html",
```

```
        })
```

```
});  
  
app.controller("aboutCtrl", function ($scope) {  
    $scope.msg = "Hello Visitor";  
  
});  
  
</script>  
  
</body>  
  
</html>  
  
v.about.html  
  
<div>About Section</div>
```

## OUTPUT:

---

[Home](#)

[About](#)

[Video](#)

[Image](#)

---

Insistute	Language
Somaiya	ANGULARJS
Khalsa College	JAVA
SIES	C++



## About Section

### Q5) Validation

Perform validation for Name,password,retype password,email id.

Code:

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <title>ng-pattern Directive</title>
```

```
  <script src= "angular.min.js">
```

```
  </script>
```

```
</head>
```

```
<body ng-app="app">
```

```
  <h1">Validation Form</h1>
```

```
  <div ng-controller="myctrl">
```

```
    <ng-form name="pass">
```

```
      <p>Name:
```

```
        <input name="username" ng-model="username" required> <br>
```

```
        <span ng-show="pass.username.$pristine && pass.username.$invalid">
```

```
          The name is required.</span> <br>
```

```
      Password:<input type="password" ng-model="password"
```

```
        name="password" ng-pattern="re" /><br>
```

```
      <span ng-show="pass.password.$error.pattern"
```

>

Not valid password.

</span><br>

Confirm: <input type="password" ng-model="repass"

ng-keyup="compare(repass)" name="repass"

ng-pattern="re" /><br>

<span ng-show="isconfirm || pass.repass.\$dirty "

ng-class="[isconfirm]">

Password { { isconfirm==true?':not'} } match

</span>

<p>Email Address:

<input name="mail" ng-model="mail" required> <br>

<span ng-show="pass.mail.\$pristine && pass.mail.\$invalid">

The Email Id is required.</span> <br>

</p>

</ng-form>

</div>

<script>

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

app.controller('myctrl', ['\$scope', function (\$scope) {



```
$scope.re = /^[a-zA-Z]\w{3,14}$/;
```

```
$scope.compare = function (repass) {
```

```
    $scope.isconfirm = $scope.password == repass ?
```

```
        true : false;
```

```
    }
```

```
  });
```

```
</script>
```

```
</body>
```

```
</html>
```

## OUTPUT:

---

Validation Form

Name:

Password:

Confirm:

Password match

Email Address:

## ReactJS

**1.Create a functional component called MyInfo that returns the following UI:  
(use CSS)**

**// a. An h1 with your name**

**// b. A paragraph with a little blurb about yourself**

**// c. An ordered or unordered list of the top 3 vacation spots you'd like to visit**

**Code:**

```
import React from "react";

import "./styles.css";

function MyInfo() {

  return (

    <div>

      <h1>My name is Dipesh</h1>

      <p>I'm A TY BSC Computer Science Student.</p>

      <ul>

        <li>Nagpur</li>

        <li>Mahabaleshwar</li>

        <li>Mumbai</li>

      </ul>

    </div>

  );

}

export default MyInfo;
```

**OUTPUT:**

# My name is Dipesh

I'm A TY BSC Computer Science Student.

- Nagpur
- Mahabaleshwar
- Mumbai

## Q2. Create 5 Product List Using Class Component (Use props)

### Code:

```
import React from 'react';

import ReactDOM from 'react-dom';

const name1= 'Pencil';

const name2= 'Eraser';

const name3= 'Sharpener';

const name4= 'Scale';

const name5= 'Pen';

const price1= '1';

const price2= '2';

const price3= '5';

const price4= '3';

const price5= '10';

const img1="https://picsum.photos/201/300";

const img2="https://picsum.photos/251/300";

const img3="https://picsum.photos/250/300";

const img4="https://picsum.photos/252/300";
```

```
const img5="https://picsum.photos/253/300";
```

```
const link="https://reactjs.org/";
```

```
ReactDOM.render(  
  <>  
    <div contentEditable="true">  
      <table BORDER="1">  
        <tr>  
          <td/>PRODUCT  
          <td/>IMAGE  
          <td/>PRICE  
        </tr>  
        <tr>  
          <td/>{name1}  
          <td/><img src={img1} alt="random image" height="60" width="80"/>  
          <td/>{price1}  
        </tr>  
        <tr>  
          <td/>{name2}  
          <td/><img src={img2} alt="random image" height="60" width="80"/>  
          <td/>{price2}  
        </tr>  
        <tr>  
          <td/>{name3}
```

```
<td/><img src={img3} alt="random image" height="60" width="80"/>
<td/>{price3}

</tr>

<tr>

<td/>{name4}

<td/><img src={img4} alt="random image" height="60" width="80"/>
<td/>{price4}

</tr>

<tr>

<td/>{name5}

<td/><img src={img5} alt="random image" height="60" width="80"/>
<td/>{price5}

</tr>

</table>






</div>

</>,

document.getElementById("root")

);
```

**Output:**

PRODUCT	IMAGE	PRICE
Pencil		1
Eraser		2
Sharpener		5
Scale		3
Pen		10

**Q3.Create react app with class and functional component for displaying info in format(Employee Name,Emp ID,Dept name,Salary)(use Props)**

**Code:**

```
import React from "react";

import ReactDOM from "react-dom";

import "./styles.css";

class Employee extends React.Component{

  render(){

    return <div>

      <h2>Employee Details</h2>

      <p>

        <label>Employee ID : <b>{this.props.id}</b></label>

      </p>

      <p>

        <label>Employee Name : <b>{this.props.name}</b></label>

      </p>

      <p>

        <label>Employee Location : <b>{this.props.location}</b></label>

      </p>

      <p>

        <label>Employee Salary : <b>{this.props.salary}</b></label>

      </p>
```

```
    </div>
  }
}
```

```
const element= <Employee id="101" name="Dipesh" location="Kurla"
salary="50000"></Employee>
```

```
ReactDOM.render(element,document.getElementById("root"));
```

**OUTPUT:**

## **Employee Details**

Employee ID : **101**

Employee Name : **Dipesh**

Employee Location : **Kurla**

Employee Salary : **50000**

**Q4.Given a stateless functional component, add state to it**

**// state should have a property called `isLoggedIn` which is a boolean**

**// (true if logged in, false if not)**

**// Then, give your best shot at rendering the word "in" if the user is logged in**

**// or "out" if the user is logged out.**



**Display Message{ You are currently logged In/Out} use if else and state**

**Code:**

```
import React, {Component} from 'react';

import { useState } from "react";

function Login() {

  const [isLoggedIn, setIsLoggedIn] = useState(true);

  const clickHandler = () => {

    if (isLoggedIn == true) {

      setIsLoggedIn(false);

    } else {

      setIsLoggedIn(true);

    }

  };

  return (

    <>

    <button onClick={clickHandler}>

      {isLoggedIn ? <span>Logout</span> : <span>Login</span>}

    </button>

    {isLoggedIn == true ? (

      <h1>You Logged In</h1>

    ) : (

      <h1>You Logged Out</h1>
```

```
)}
```

```
</>
```

```
);
```

```
}
```

```
export default Login;
```

**OUTPUT:**

Login

**You Logged Out**

Logout

**You Logged In**

**Q5.Create react app to display digital clock using useState(Hook){Note:use setInterval function)**

**Code:**

```
import React from 'react';
```

```
class ClockFunction extends React.Component {
```

```
constructor() {  
  super();  
  this.state = { time: new Date() }; // initialise the state  
}
```

```
componentDidMount() { // create the interval once component is mounted  
  this.update = setInterval(() => {  
    this.setState({ time: new Date() });  
  }, 1 * 1000); // every 1 seconds  
}
```

```
componentWillUnmount() { // delete the interval just before component is  
removed  
  clearInterval(this.update);  
}
```

```
render() {  
  const { time } = this.state; // retrieve the time from state  
  
  return (<div>  
    <h1>Digital Clock</h1>  
    <h2>
```

```

        { /* print the string prettily */ }

        { time.toLocaleTimeString() }

    </h2>

</div>);

}

}

```

export default ClockFunction;

**OUTPUT:**

## Digital Clock

1:39:10 PM

## Digital Clock

1:40:07 PM

**Q6.Create react app to display number is odd or even on every single click of button using useState(Hook){Note:use setInterval function}**

**Code:**

```
import React, { useState } from 'react';
```

```
function lastValue() {
```

```
const [click, setClick] = useState(0);
```

```
return (
```

```
    <div>
```

```
    <p>You've clicked {click} times!</p>
```

```
    <p>The number of times you have clicked
```

```
    is {click%2==0?'even!':'odd!'}</p>
```

```
        <button onClick={() => setClick(click => click + 1)}>
```

```
            Click me
```

```
        </button>
```

```
    </div>
```

```
);
```

```
}
```

```
export default lastValue;
```

## OUTPUT:

You've clicked 2 times!

The number of times you have clicked is even!

Click me

You've clicked 2 times!

The number of times you have clicked is even!

Click me

**Q7.Program to demonstrate the use of arrays as a state variable (using useState()).(display cube of number on every single click)**

**Code:**

```
import React, { useState } from 'react';
```

```
function Arr_demo1() {
```

```
  const [click, setClick] = useState([ {id: '1', value: '1'} ]);
```

```
  const addNumber = () => {
```

```
    setClick([
```

```
      ...click,
```

```
      {
```

```
        id: click.length,
```

```
        value:( click.length)* ( click.length)* ( click.length)
```

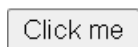
```
      }  
    ]);
```

```
  };
```

```
return (  
  <div>  
    <ul>  
      {click.map(item => (  
        <li key={item.id}>{item.id} 's Cube is {item.value}</li>  
      ))}  
    </ul>  
    <button onClick={addNumber}>  
      Click me  
    </button>  
  </div>  
);  
}  
  
export default Arr_demo1;
```

### OUTPUT:

- 1 's Cube is 1
- 2 's Cube is 8
- 3 's Cube is 27



**Q9.Create react form for asking user to enter name ,mobile number ,gender and Language known. and display the same**

**Code:**

```
import React, { useState } from 'react';

const App=()=>=>{

  let result;

  const[mydisp,setMyDisp]=useState("");

  const[myInfo,setMyInfo]=useState({

    firstName: "",

    lastName: "",

    age: "",

    gender: "",

    destination: "",

    isCricket: false,

    isMusic: false,

    isDance: false

  });


  const handleChange=(event)=> {

    const value=event.target.value;

    const name=event.target.name;

    setMyInfo((preValue)=>{

      return{

        ...preValue,
```



```

        [name]:value,
    }
  });
};

const show=(event)=>{
  event.preventDefault();

  //const firstName: myInfo.firstName

  result="Name: "+myInfo.firstName;
  console.log(result);
  alert("hi"+result);
}

return (
  <>

  <form onSubmit={ show }>
    <input
      name="firstName"
      value={ myInfo.firstName }
      onChange={ handleChange }
      placeholder="First Name"
    />

```

```
<br />
```

```
<input  
  name="age"  
  value={ myInfo.age}  
  onChange={ handleChange}  
  placeholder="Mobile Number"  
/>
```

```
<br />
```

```
<label>  
  <input  
    type="radio"  
    name="gender"  
    value="male"  
    checked={ myInfo.gender === "male" }  
    onChange={ handleChange}  
  /> Male  
</label>
```

```
<br />
```

```
<label>
  <input
    type="radio"
    name="gender"
    value="female"
    checked={myInfo.gender === "female"}
    onChange={handleChange}
  /> Female
</label>

<br />
```

Please Choose Languages Known To You:<br/>

```
<label>
  <input
    type="checkbox"
    name="isCricket"
    onChange={handleChange}
    checked={myInfo.isCricket}
  /> English?
</label>

<br />
```

```
<label>
  <input
    type="checkbox"
    name="isMusic"
    onChange={handleChange}
    checked={myInfo.isMusic}
  /> German?
</label>

<br />

<label>
  <input
    type="checkbox"
    name="isDance"
    onChange={handleChange}
    checked={myInfo.isDance}
  /> French?
</label>

<br />

<button type="submit">Submit</button>

<h2>Entered information is{result}</h2>

</form>
```

```
<hr />

<h2>Entered information is:{ mydisp}</h2>

<p>Your name: {myInfo.firstName} {myInfo.lastName}</p>

<p>Your Mobile No: {myInfo.age}</p>

<p>Your gender: {myInfo.gender}</p>

<p>Your sellected Language/s:</p>


<p>English: {myInfo.isCricket ? "Yes" : "No"}</p>

<p>German: {myInfo.isMusic ? "Yes" : "No"}</p>

<p>French: {myInfo.isDance ? "Yes" : "No"}</p>

</>

);

}

export default App;
```

**OUTPUT:**

Dipesh

0734873899

☒ Male

☐ Female

Please Choose Languages Known To You:

☐ English?

☒ German?

☐ French?

Submit

**Entered information is**

---

**Entered information is:**

Your name: Dipesh

Your Mobile No: 0734873899

Your gender: male

Your selected Language/s:

English: No

German: Yes

French: No