

UIT 1611 WEB PROGRAMMING LABORATORY

Exercise 03

Name: Elakkiya S

Register No.: 195002036

1.Simple calculator using Angularjs:

Code:

```
<!DOCTYPE html>

<head>

<title>Simple calculator</title>

<script src=
"https://cdnjs.cloudflare.com/ajax/libs/angular.js/1.8.3/angular.min.js"></script>

<script>

angular.module('CalculatorApp', [])

.controller('CalculatorController', function($scope) {

    $scope.result = function() {

        if ($scope.operator == '+') {

            return $scope.a + $scope.b;

        }

        if ($scope.operator == '-') {

            return $scope.a - $scope.b;

        }

        if ($scope.operator == '*') {

            return $scope.a * $scope.b;

        }

        if ($scope.operator == '/') {

            return $scope.a / $scope.b;

        }

    };

});

</script>

</head>

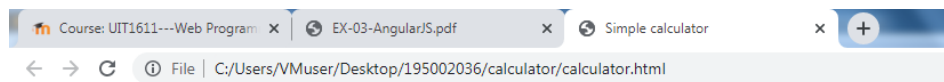
<body>
```

```

<h1>SIMPLE CALCULATOR</h1>
<div ng-app="CalculatorApp" ng-controller="CalculatorController">
  <p>Enter a number: <input type="number" ng-model="a"></p>
  <p>Enter a number:<input type="number" ng-model="b"></p>
  <p>Select an operation: <select ng-model="operator">
    <option>+</option>
    <option>*</option>
    <option>-</option>
    <option>/</option>
  </select></p>
  <p><strong>Result: </strong>{{ result() }}</p>
</div>
</body>
</html>

```

Output:



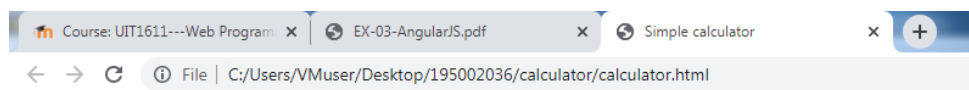
SIMPLE CALCULATOR

Enter a number:

Enter a number:

Select an operation:

Result:



SIMPLE CALCULATOR

Enter a number:

Enter a number:

Select an operation:

Result: 100

2. Write an Angular program to implement Components, Service, and Controllers.

Components:

index.html:

```
<!DOCTYPE html>
<html ng-app="newApp">
<head>
  <title>Component Creation</title>
  <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></script>
  <script src="app.js"></script>
  <script src="component.js"></script>
</head>
<body>
  <new-list></new-list>
</body>
</html>
```

app.js

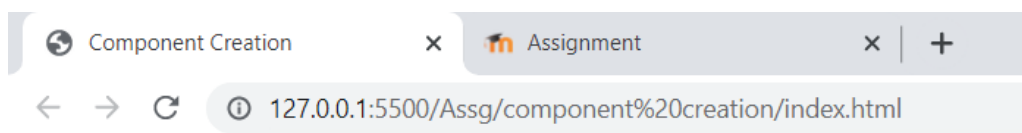
```
angular.module('newApp', []);
```

component.js

```
angular.module('newApp').
  component('newList', {
    template:
      '<ul>' +
      '<li ng-repeat="item in $ctrl.names">' +
      '<span>{{item.name}}</span>' +
      '<p>{{item.department}}</p>' +
      '</li>' +
      '</ul>',
    controller: function newListController() {
      this.names = [
```

```
{
  name: 'Nandana R',
  department: 'Electronics and Communications Engineering '
}, {
  name: 'Reshma A',
  department: 'Chemical Engineering'
}, {
  name: 'Barath R',
  department: 'Mechanical Engineering'
}, {
  name: 'Manickam L',
  department: 'Computer Science Engineering'
}
];
}
});
```

Output:



- Nandana R
Electronics and Communications Engineering
- Reshma A
Chemical Engineering
- Barath R
Mechanical Engineering
- Manickam L
Computer Science Engineering

Controller:

```
<!DOCTYPE html>

<html>

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

<body>

  <h2>ng-controller directive</h2>

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

    Full Name: {{firstName + " " + lastName}}

  </div>

  <script>

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

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

      $scope.firstName = "Elakkiya";

      $scope.lastName = "Selvaraj";

    });

  </script>

</body>

</html>
```

Output:

← → ↻ ⓘ 127.0.0.1:5500/Assg/Angular%20beginners/q3.htm

ng-controller directive

Full Name: Elakkiya Selvaraj

Services:

Creating a custom service:

Code:

```
<!DOCTYPE html>

<html>

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

<body>

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

    <p>The hexadecimal value of 255 is:</p>

    <h1>{{hex}}</h1>

  </div>

  <p>A custom service with a method that converts a given number into a
  hexadecimal number.</p>

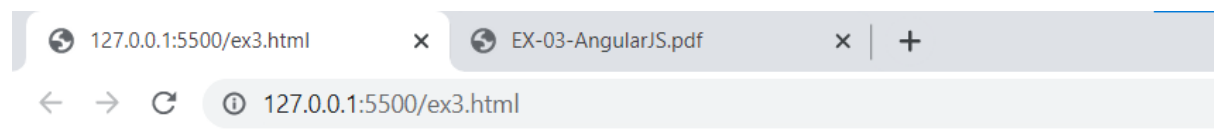
  <script>

    var app = angular.module('myApp', []);
    app.service('hexafy', function () {
      this.myFunc = function (x) {
        return x.toString(16);
      }
    });
    app.controller('myCtrl', function ($scope, hexafy) {
      $scope.hex = hexafy.myFunc(255);
    });
  </script>

</body>

</html>
```

Output:



The hexadecimal value of 255 is:

ff

A custom service with a method that converts a given number into a hexadecimal number.

3)Write an Angular program to implement search to filter items.

Code:

```
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
  <title>AngularJs filter Example</title>
  <script
src="http://ajax.googleapis.com/ajax/libs/angularjs/1.4.8/angular.min.js"></script>
  <script>
    var app = angular.module("AngularfilterApp", []);
    app.controller("filterctrl", function ($scope) {
      $scope.users = [{
        name: "Sriprada",
        age: 11
      }, {
        name: "Kavin Malone",
        age: 29
      }, {
        name: "Yazhisai",
        age: 29
      }, {
        name: "Prathipa",
        age: 24
      }
    ]
  }
}
```

```

    });
  });
</script>
</head>
<body ng-app="AngularfilterApp">
  <div ng-controller="filterctrl">
    Enter Name to Filter:<input ng-model="searchtxt" type="text" placeholder="Filter
key">
    <table>
      <tr>
        <th>Name</th>
        <th>Age</th>
      </tr>
      <tr ng-repeat="user in users | filter : searchtxt">
        <td>{{user.name}}</td>
        <td>{{user.age}}</td>
      </tr>
    </table>
  </div>
</body>
</html>

```

Output:

< > ↻ ⓘ 127.0.0.1:5500/searchfilter.html

Enter Name to Filter:

Name	Age
Sriprada	11
Kavin Malone	29
Yazhisai	29
Prathipa	24

← → ↻ ⓘ 127.0.0.1:5500/searchfilter.html

Enter Name to Filter:

Name Age

Yazhisai 29

← → ↻ ⓘ 127.0.0.1:5500/searchfilter.html

Enter Name to Filter:

Name Age

