Practical No. 10

Exercise : To Create a SPA (Single Page Application)

Implementation:
Program:

first.html

```
<!-- Display message from the controller -->

<h1>{{ message }}</h1>

<p>This is the content of the first page.</p>
```

Second.html

```
<!-- Display message from the controller -->

<h1>{{ message }}</h1>

<p>You are on the second page. Welcome!</p>
```

Third.html

```
<!-- Display message from the controller -->

<h1>{{ message }}</h1>

<p>Congratulations! You have reached the third page.</p>
```

Main.html

```
<!-- Display message from the controller -->

<h1>{{ message }}</h1>

<p>This is the main page content.</p>
```

Index.html

```
<!DOCTYPE html>

<html lang="en" ng-app="myApp">

<head>

    <meta charset="UTF-8">

    <title>AngularJS SPA</title>

    <!-- Include AngularJS library and custom script -->

    <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></script>

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

</head>
```

```html
<body>
    <!-- Placeholder for views to be loaded dynamically -->
    <div ng-view></div>
</body>
</html>
```

Script.js

```javascript
// AngularJS module declaration with ngRoute dependency
var app = angular.module('myApp', ['ngRoute']);


// Configuration for AngularJS routing
app.config(function($routeProvider) {
    $routeProvider
        .when('/main', {
            templateUrl: 'main.html',
            controller: 'MainController'
        })
        .when('/first', {
            templateUrl: 'first.html',
            controller: 'FirstController'
        })
        .when('/second', {
            templateUrl: 'second.html',
            controller: 'SecondController'
        })
        .when('/third', {
            templateUrl: 'third.html',
            controller: 'ThirdController'
        })
        .otherwise({
            redirectTo: '/main'
```

```javascript
    });

});


// Controller for the main page
app.controller('MainController', function($scope) {

    $scope.message = 'Welcome to the Main Page!';

});


// Controller for the first page
app.controller('FirstController', function($scope) {

    $scope.message = 'This is the First Page!';

});


// Controller for the second page
app.controller('SecondController', function($scope) {

    $scope.message = 'You are on the Second Page!';

});


// Controller for the third page
app.controller('ThirdController', function($scope) {

    $scope.message = 'You have reached the Third Page!';

});
```

Output:

Main First Second Third

Welcome to the Main Page!

This is the main page content.

Main First Second Third

This is the First Page!

This is the content of the first page.

Main First Second Third

You are on the Second Page!

You are on the second page. Welcome!

Main First Second Third

You have reached the Third Page!

Congratulations! You have reached the third page.