

Scripting Language Lab

Create a calculator app using Angular

HTML CODE:

```
<!DOCTYPE html>
<html ng-app>

<head>
<script data-require="angular.js@1.0.7" data-
semver="1.0.7" src="https://ajax.googleapis.com/ajax/libs/angularjs/1.0.7/angular.js"></script>
<link rel="stylesheet" href="style.css" />
<script src="script.js"></script>
</head>

<body>
<h1>AngularJS calculator</h1>
<div ng-controller="CalculatorCtrl">
<table>
<tr>
<td>a =</td>
<td><input ng-model="a"></td>
<td>
<button class="command" ng-click="inca()">+1</button>
<button class="command" ng-click="deca()">-1</button>
</td>
</tr>
<tr>
<td>b =</td>
<td><input ng-model="b"></td>
<td>
<button class="command" ng-click="incb()">+1</button>
<button class="command" ng-click="decb()">-1</button>
</td>
</tr>
<tr>
<td>operation:</td>
<td>
<select ng-model="operation">
<option value="+">+</option>
<option value="-">-</option>
<option value="*">*</option>
<option value="/">/</option>
<option value="!">!</option>
</select>
</td>
</tr>
<tr>
<td colspan="3">
<b class="result">{{na()}} {{operation}} {{nb()}} = {{calculate()}}</b>
</td>
</tr>
</table>
</div>
```

```
</body>

</html>
```

SCRIPT CODE:

```
function CalculatorCtrl($scope) {

    $scope.a = 0;
    $scope.b = 0;
    $scope.operation = '+';

    $scope.na = function() {
        return $scope.a - 0;
    }

    $scope.nb = function() {
        return $scope.b - 0;
    }

    $scope.inca = function() {
        $scope.a = $scope.na() + 1;
    }

    $scope.incb = function() {
        $scope.b = $scope.nb() + 1;
    }

    $scope.deca = function() {
        $scope.a = $scope.na() - 1;
    }

    $scope.decb = function() {
        $scope.b = $scope.nb() - 1;
    }

    $scope.calculate = function() {
        if($scope.operation == '+') {
            return $scope.na() + $scope.nb();
        }
        if($scope.operation == '-') {
            return $scope.a - $scope.b;
        }
        if($scope.operation == '*') {
            return $scope.a * $scope.b;
        }
    }
}
```

```

    }
    if($scope.operation == '/') {
        return $scope.a / $scope.b;
    }
    if($scope.operation == '!!') {
        i=1,fact=1;
        for(i=1;i<=$scope.a ;i++){
            fact=fact*i;
        }
        return fact ;
    }

}

return "undef";
}

```

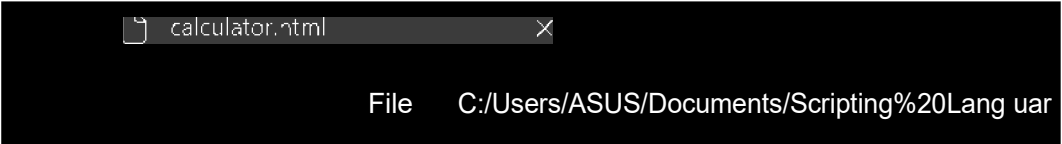
STYLE CSS:

```

.result {
    color: #38f;
    font-size: 36px;
}

.command {
    cursor: pointer;
    color: #00b;
    font-size: 13px;
    font-weight: bold;
}

```



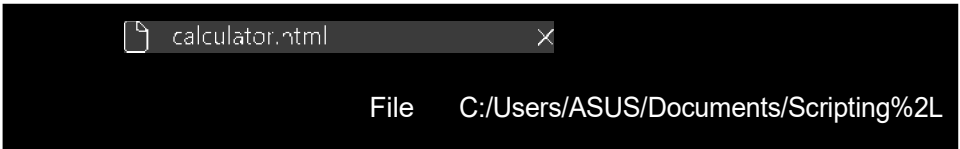
AngularJS calculator

a =

b =

operation:

21 0 = 51090942171709440000



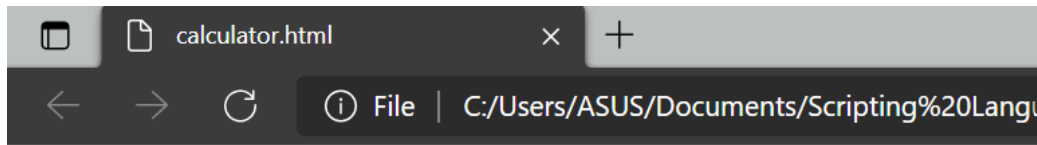
AngularJS calculator

a -

b =

operation:

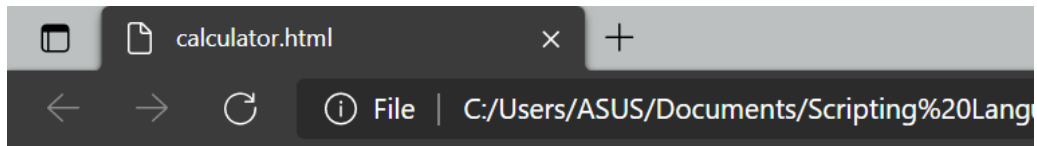
40 / 50 = 0.8



AngularJS calculator

a =
b =
operation:

40 - 50 = -10



AngularJS calculator

a =
b =
operation:

40 + 50 = 90

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