

## Aim:

To create a simple HTML "Hello World" project using the AngularJS framework and apply `ng-controller`, `ng-model`, `expressions`, and `filters`.

## Theory:

AngularJS is a structural framework for dynamic web applications. It extends HTML with additional attributes and binds data to the UI dynamically. It follows the Model-View-Controller (MVC) architecture, allowing developers to create modular and maintainable applications.

## Key Concepts Used:

1. **ng-app**: Defines the root element of the AngularJS application.
2. **ng-controller**: Defines a controller that manages application data.
3. **ng-model**: Creates a two-way data binding between an input field and a variable.
4. **Expressions** (`{{ }}`): Used to bind data from the model to the view.
5. **Filters**: Used to format data before displaying it (e.g., uppercase, lowercase, currency, etc.).

## Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Hello World in AngularJS</title>
  <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js">
</script>
</head>
<body ng-app="helloApp">

  <div ng-controller="HelloController">
    <h1>{{ message }}</h1>
    <p>Enter your name: <input type="text" ng-model="name"></p>
    <p>Hello, {{ name | uppercase }}!</p>
  </div>

  <script>
    var app = angular.module('helloApp', []);
    app.controller('HelloController', function($scope) {
      $scope.message = "Hello, World!";
      $scope.name = "";
    });
  </script>

</body>
</html>
```

## **Conclusion:**

In this practical, we successfully created a simple "Hello World" project using AngularJS. We applied `ng-controller`, `ng-model`, expressions, and filters to dynamically display and modify data. This experiment provided a basic understanding of how AngularJS facilitates dynamic and interactive web applications.