**Practical No. 9**

**Exercise - Create an application to demonstrate controllers (name and city example)**

**Implementation:**

**Program:**

<!DOCTYPE html>

<html lang="en">

<head>

    <!-- Define the character set and viewport settings for the document -->

    <meta charset="UTF-8">

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

    <!-- Include the AngularJS library -->

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

    <!-- Set the title of the document -->

    <title>AngularJS Controllers Example</title>

</head>

<body>

    <!-- AngularJS application initialization with ng-app and ng-controller -->

    <div ng-app="peopleApp" ng-controller="peopleController">

        <!-- Input fields for adding a new person -->

        <label for="newName">Name:</label>

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

        <label for="newCity">City:</label>

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

        <!-- Button to add a new person to the list -->

        <button ng-click="addPerson()">Add Person</button>

        <!-- Display the list of people using ng-repeat -->

        <ul>

            <li ng-repeat="person in people">{{ person.name }} - {{ person.city }}</li>

        </ul>

    </div>

    <!-- AngularJS script to define the module and controller -->

    <script>

        angular.module('peopleApp', [])

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

                // Initial list of people

                $scope.people = [];

                // Function to add a new person to the list

                $scope.addPerson = function () {

                    // Check if both name and city are provided

                    if ($scope.newName && $scope.newCity) {

                        // Add the new person to the list

                        $scope.people.push({ name: $scope.newName, city: $scope.newCity });

                        // Clear the input fields after adding a person

                        $scope.newName = '';

                        $scope.newCity = '';

                    } else {

                        // Display an alert if either name or city is missing

                        alert('Please enter both Name and City.');

                    }

                };

            });

    </script>

</body>

</html>

**Output:**

