	GC.
,	EXP 3: Angular Js. DATE:
17	APM - 70 Study Angular JS
70007 av	OF THE ME AS A MACRIMEN ON CHARLESTONED IN MOUNT OF
	Theory -
10°N	A HORDON OF THE AUDITOR AUDITOR AND STORY AND
	What are detectives? Name some of the most
9.3	Commonly used distectives in Angular Is
fo.	appircations. o simple simples
	The state of the s
0 3,	In angular Is, desectives are a way to create un remable
197	components that can be added to HTML. They allow
	You to extend HTML with new attorbutes and elements.
38,00	which can be used to add functionality of change
2 1110	
\$2216000	Some most commonly used diffectives ase-
1.	ng-moder It is littled for two-way data binding
II Ab Jos	between a model and a foom input element.
2.	N9-tepeat - This diffective is used to sepeat a set
	of Hemz elements based on an assay or object.
	ng-Show/ng-hide - These distertives are used
6/97	to conditionally show or hide tetme elements.
4.	19- CITCLE - This distribute is used to add click
	event handless to HTML elements, allowing to
HO?	4839983 9060ng. 89440 HARWS 16 14 14 14 14 14 14 14 14 14 14 14 14 14
	are somethings equipment than were
20	what is date binding in Angular Js?
	es led nortanista proofs and toomays
5.1.	Dates binding is a feature in Angular is that lets you
1.0	Sync dates between your application model and used
blownit'	Poperfece. The month of both and both and better
. 10/160	Bital man of the stand of the stand of the stand
	SEU JANOITADUGS SON FOR EDUCATIONAL USE

:31	DAN 3
2.	It allows you to bind the content of string i
	Elements to bookersies of expressions in your zona war
	(006)
3.	These are defferent types of data binding, such as
4.	Dota bindena sempreties use marers of courses
	Dota binding simplifies the process of charting
	Angular Js.
FIRM PA	OF TO COQUICK IS , CENTROLED CO WOOD TO LET
3.449	How form valedation is done in Angular Js?
->	TOTAL THE WAY OF THE PARTY TOTAL OF THE PARTY OF THE PART
->	from validation in Anguició Is Babuilt-feature
	and allows you to varidate will input in from
probable.	alled a goldgating saltox. Here, y you it moster:
CHON MAN IS	1 In a model of the state of the state of
1920	Add the 'ng-app' appective to the soft element of
399882.	Add the 'My from' distertise to the form of
ba v	Add the 'M-form' distertive to the form element you want to validate and give it a name.
R	Add the 'ng-model' distective to each in put field
	EN YOUR bothom to plud st to avassaple in hour
	Angular 75 (ontoller.)
	Add the 'Heavisted' Ottogpate to Each What Eigh
	you want to make dequited.
5	Add the 109 Submitter distective to the from
	exement and specify a function to execute
up Y	when the form is submitted.
66.	In your controller define the function
	you specified in poerious grep and use the "sinulia
	property of from object to check if from valid or not
	ASU LANOITADUGATIONAL USE FOR EDUCATIONAL USE

-

-

4. what is the use of Angulas Is controlleds En the application? ->- the main uses of controllers asea separens concerns and executing a crean application aschitectuse. Bridge date to the view through the \$500001 Dobject. Handling well input and events by defining event handless and functions. Interacting with stavices and APIs to Reposer d. and manipulate data. unit testing to ensure deliable and maintainable (ede. what is the utl of Anguigo Is filled in the opplication ? >1. Formatting dates for dripping of in a variety of 12400 sorring date in ascending or descending order and by mulkple coresig. 3. Filtering duta based on specifit coppers such as value or property. paginating large datasets for better user expessence. (deating custom filters for maximum flexibility and inspirison. FOR EDUCATIONAL USE

```
Implementation:
Q1.
Code:
app.js
var app = angular.module('myTodoListApp', []);
app.controller('todoController', function($scope) {
  // Initialize the list of todos
  scope.todos = [];
  // Add a new todo item to the list
  $scope.addTodo = function() {
    if ($scope.newTodoText) {
       $scope.todos.push({
         text: $scope.newTodoText,
         done: false
       });
       $scope.newTodoText = ";
  };
  // Remove completed todo items from the list
  $scope.removeCompleted = function() {
    for (var i = \$ scope.todos.length - 1; i \ge 0; i--) {
       if ($scope.todos[i].done) {
          $scope.todos.splice(i, 1);
     }
  };
  // Update an existing todo item in the list
  $scope.updateTodo = function(todo) {
    todo.editing = false;
    todo.text = todo.updatedText;
  };
```

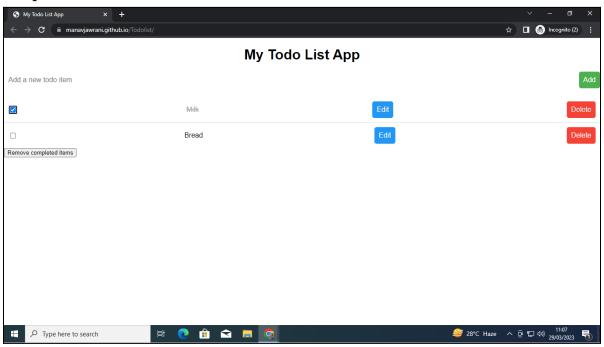
```
// Enable editing mode for a todo item
  $scope.editTodo = function(todo) {
    todo.editing = true;
    todo.updatedText = todo.text;
  };
});
app.directive('confirmClick', ['$window', function($window) {
  return {
    restrict: 'A',
    link: function(scope, element, attr) {
       var msg = attr.confirmClick || 'Are you sure?';
       var clickAction = attr.ngClick;
       element.bind('click', function(event) {
         if ($window.confirm(msg)) {
            scope.$eval(clickAction);
       });
  };
}]);
index.html
<!DOCTYPE html>
<html>
<head>
  <title>My Todo List App</title>
  <style>
    body {
       font-family: Arial, sans-serif;
       margin: 0;
       padding: 0;
```

```
h1 {
  text-align: center;
  margin: 20px 0;
}
form {
  display: flex;
  align-items: center;
  margin-bottom: 20px;
form input[type="text"] {
  flex: 1;
  padding: 10px;
  font-size: 16px;
  border: none;
  border-radius: 5px;
form button {
  margin-left: 10px;
  padding: 10px;
  font-size: 16px;
  border: none;
  border-radius: 5px;
  background-color: #4CAF50;
  color: #fff;
  cursor: pointer;
ul {
  list-style: none;
  margin: 0;
  padding: 0;
```

```
}
li {
  display: flex;
  align-items: center;
  justify-content: space-between;
  padding: 10px;
  font-size: 16px;
  border-bottom: 1px solid #ddd;
li:last-child {
  border-bottom: none;
li input[type="text"] {
  flex: 1;
  padding: 10px;
  font-size: 16px;
  border: none;
  border-radius: 5px;
li button {
  margin-left: 10px;
  padding: 10px;
  font-size: 16px;
  border: none;
  border-radius: 5px;
  background-color: #f44336;
  color: #fff;
  cursor: pointer;
}
li button.edit {
```

```
background-color: #2196F3;
    li button.save {
       background-color: #4CAF50;
    .completed {
      text-decoration: line-through;
       color: #999;
  </style>
</head>
<br/><body ng-app="myTodoListApp">
  <div ng-controller="todoController">
    <h1>My Todo List App</h1>
    <form ng-submit="addTodo()">
                      <input type="text" placeholder="Add a new todo item"
ng-model="newTodoText">
       <button type="submit">Add</button>
    </form>
    <111>
           ng-repeat="todo in todos" ng-class="{completed: todo.done, editing:
todo.editing}">
         <input type="checkbox" ng-model="todo.done">
               <span ng-hide="todo.editing" ng-class="{completed: todo.done}">{{
todo.text }}</span>
         <input type="text" ng-show="todo.editing" ng-model="todo.updatedText">
                                    <button class="edit" ng-hide="todo.editing"</pre>
ng-click="editTodo(todo)">Edit</button>
                                   <button class="save" ng-show="todo.editing"</pre>
ng-click="updateTodo(todo)">Save</button>
```

Output:



```
Q2.
Code:
app.js
angular.module('studentApp', [])
 .controller('StudentController', function () {
  var self = this;
  // initialize empty student object and student list array
  self.newStudent = {};
  self.studentList = [];
  // function to add a new student to the list
  self.addStudent = function (studentForm) {
   // validate form inputs
   if (studentForm.$valid) { // validation occurs here
     self.studentList.push(self.newStudent);
     self.newStudent = {};
     studentForm.$setPristine();
  };
  // function to delete a student from the list
  self.deleteStudent = function (index) {
   self.studentList.splice(index, 1);
  };
 });
index.html
<!DOCTYPE html>
<a href="html lang="en" ng-app="studentApp">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
<title>Student Management System</title>
                                                                          <script
src="https://cdnjs.cloudflare.com/ajax/libs/angular.js/1.8.2/angular.min.js"></script>
  <script src="app.js"></script>
  <link rel="stylesheet" href="style.css" />
</head>
<body ng-controller="StudentController as studentCtrl">
  <h1>Student Management System</h1>
  <form name="studentForm" ng-submit="studentCtrl.addStudent(studentForm)">
    <label for="firstName">First Name:</label>
                                type="text" id="firstName"
                                                               name="firstName"
                       <input
ng-model="studentCtrl.newStudent.firstName" ng-required="true">
    <label for="lastName">Last Name:</label>
                                 type="text"
                                              id="lastName"
                                                               name="lastName"
                        <input
ng-model="studentCtrl.newStudent.lastName" ng-required="true">
    <label for="address">Address:</label>
                                    type="text"
                                                  id="address"
                                                                 name="address"
                          <input
ng-model="studentCtrl.newStudent.address" ng-required="true">
    <label for="mobileNo">Mobile No:</label>
                                 type="tel"
                                             id="mobileNo"
                                                               name="mobileNo"
                        <input
ng-model="studentCtrl.newStudent.mobileNo"
                                                          ng-pattern="/^d{10}$/"
ng-required="true">
    <label for="class">Class:</label>
                                                                    name="class"
                                        type="text"
                                                      id="class"
                              <input
ng-model="studentCtrl.newStudent.class" ng-required="true">
    <button type="submit">Add Student</button>
  </form>
  <input type="text" ng-model="searchQuery" placeholder="Search by first name or
last name">
```

```
<thead>
    First Name
     Last Name
     Address
     Mobile No
     Class
     Action
    </thead>
   {{student.firstName | uppercase}}
     {{student.lastName | uppercase}}
     {{student.address}}
     {{student.mobileNo}}
     {{student.class}}
                                           <ton
ng-click="studentCtrl.deleteStudent($index)">Delete</button>
    </body>
</html>
style.css
/* General Styles */
body {
 font-family: Arial, sans-serif;
 margin: 0;
 padding: 0;
}
```

```
h1 {
  margin-top: 0;
  margin-bottom: 20px;
  text-align: center;
}
form {
  margin-bottom: 20px;
}
input[type="text"],
input[type="tel"] {
  padding: 8px;
  margin-bottom: 10px;
  border-radius: 4px;
  border: 1px solid #ccc;
  width: 100%;
  box-sizing: border-box;
input[type="submit"],
button {
  padding: 8px 12px;
  background-color: #4CAF50;
  color: #fff;
  border: none;
  border-radius: 4px;
  cursor: pointer;
}
input[type="submit"]:hover,
button:hover {
  background-color: #3e8e41;
}
```

```
table {
  border-collapse: collapse;
  width: 100%;
}
th,
td {
  text-align: left;
  padding: 8px;
th {
  background-color: #4CAF50;
  color: #fff;
}
tr:nth-child(even) {
  background-color: #f2f2f2;
}
/* Responsive Styles */
@media (max-width: 768px) {
  table,
  thead,
  tbody,
  th,
  td,
  tr {
     display: block;
  }
  th {
     position: absolute;
    top: -9999px;
```

```
left: -9999px;
  td {
    border: none;
    position: relative;
    padding-left: 50%;
    text-align: right;
  }
  td:before {
    position: absolute;
    top: 6px;
    left: 6px;
    width: 45%;
    padding-right: 10px;
    white-space: nowrap;
     content: attr(data-label);
    font-weight: bold;
    text-align: left;
}
```

Output:

