PRACTICAL -1

Q1. Write a program to create an HTML file using the angular JS library.

```
<!DOCTYPE html>

<html>

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

<body>

<div ng-app="">

<p>Name: <input type="text" ng-model="name"></p>

<h1>Hello {{name}}</h1>

</div>

</body>

</html>
```

OUTPUT

Name: Vikrant Saini

Hello Vikrant Saini

PRACTICAL -2

Q2. Write a program to explain the use of ng directives.

```html
<!DOCTYPE html>
<html>
<script
src="https://ajax.googleapis.com/ajax/libs/angularjs/
1.6.9/angular.min.js"></script>
<body>
<div ng-app="myApp" ng-controller="myCtrl">
Name: <input ng-model="name">
</div>
<script>
var app = angular.module('myApp', []);
app.controller('myCtrl', function($scope) {
    $scope.name = "Vikrant Saini";
});
</script>
<p>Use the ng directive to bind the value of the
input field</p>
</body>
</html>
```

OUTPUT

Name: Vikrant Saini

Use the ng directive to bind the value of the input field

PRACTICAL - 3

Q3. Write a program to explain the use of Angular Controllers.

```
<!DOCTYPE html>
<html>
<script
src="https://ajax.googleapis.com/ajax/libs/angularjs/
1.6.9/angular.min.js"></script>
<body><p>Try to change the names.</p>
<div ng-app="myApp" ng-controller="myCtrl">
First Name: <input type="text" ng-
model="firstName"><br>
Last Name: <input type="text" ng-
model="lastName"><br>
<br>Full Name: {{firstName + " " + lastName}}
</div><script>
var app = angular.module('myApp', []);
app.controller('myCtrl', function($scope) {
    $scope.firstName= "Gunjan";
    $scope.lastName= "Verma";
});
</script>
</body>
</html>
```

OUTPUT

Try to change the names.

First Name: Vikrant
Last Name: Saini

Full Name: Vikrant Saini

PRACTICAL - 4

Q4. Writes a program to explain the use of Data Binding.

```html
<!DOCTYPE html>
<html>
<script
src="https://ajax.googleapis.com/ajax/libs/angularjs/
1.6.9/angular.min.js"></script>
<body>
<div data-ng-app="" data-ng-
init="quantity=1;price=5">
<h2>Cost Calculator</h2>
Quantity: <input type="number" ng-model="quantity">
Price: <input type="number" ng-model="price">
<p><b>Total Rupees:</b> {{quantity * price}}</p>
</div>
</body>
</html>
```

OUTPUT

Cost Calculator

Quantity: 5   Price: 17

Total Rupees: 85

PRACTICAL - 5

Q5. Write a program to build a form to calculate the cost of an invoice in different currencies and also pay the invoices.

```
<!Doctype html>
<html>
<script
src="https://ajax.googleapis.com/ajax/libs/angularjs/
1.4.8/angular.min.js"></script>
<body>
<div ng-app="myapp" ng-controller="myctrl">
<form>
No. of Item:<input type="number" ng-model="item">
Cost per item:<input type="number" ng-
model="cost"><br>
</form>
<br>
<h2>Total in rupees:</b>&#8377{{item*cost}}</h2>
<h2>Total in USA Dollar:</b>${{(item*cost)/82}}</h2>
<h2>Total in Pound:</b>&#163{{(item*cost)/91}}</h2>
</div>
<form>
CLICK TO PAY:<input type="number" value=""><br>
<input type="submit" value="PAY"><br>
</form>
<script>
var app=angular.module('myapp',[]);
app.controller('myctrl',function($scope){
$scope.item=50;
$scope.cost=100;
});
</script>
```

```
</body>
</html>
```

No. of Item: 5   Cost per item: 693

Total in rupees:₹3465

Total in USA Dollar:$42.25609756097561

Total in Pound:£38.07692307692308

CLICK TO PAY: 693

PAY

PRACTICAL - 6

Q6. Write a program to explain the concept of MVC.

```html
<!DOCTYPE html>
<html>
<script
src=https://ajax.googleapis.com/ajax/libs/angularjs/1
.6.9/angular.min.js>
</script>
<body>
<div class="container" style="margin-top: 100px" ng-
app="invoice">
<section class="jumbotron">
<h2><MVC</h2>
</section>
<section class="row" ng-
controller="InvoiceController">
<table class="table table-hover">
<thead>
<tr>
<th>Name</th>
<th>Qty</th>
<th>Price</th>
<th>Total</th>
<th>Delete</th>
</tr>
</thead>
<tbody>
<tr ng-repeat="item in invoice.items">
<td>
<input type="text" ng-model="item.name" /> </td>
<td>
<input type="number" ng-model="item.qty" /> </td>
```

```html
<td>
<input type="number" ng-model="item.price" /> </td>

<td>{{item.qty * item.price}} rupees only</td>
<td>
<button
type="button" ng-click="remove($index)">
Delete
</button> </td> </tr>
<tr>
<td>
<button type="button" ng-click="add()">
Add item
</button>
</td>
<td>Total :</td>
<td>{{totalInr()}} rupees only</td>
</tr>
</tbody>
</table>
</section>
</div>
<script>
let invoice = angular.module("invoice", [])
invoice.controller("InvoiceController", function
($scope) {
$scope.invoice = { items: [{
name: "item",
description: "item description",
qty: 5,
price: 5.5, }, ], };
($scope.add = function () {
$scope.invoice.items.push({
```

```
name: "",
description: "",
qty: 1,
price: 0,
})
}),
($scope.remove = function (index) {
$scope.invoice.items.splice(index, 1)
}),
($scope.totalInr = function () {
var total = 0
angular.forEach($scope.invoice.items, function (item)
{
total += item.qty * item.price
})
return total
})()
})
</script>
</body>
</html>
```

OUTPUT

Name	Qty	Price	Total	Delete
chips	5	20	100 rupees only	Delete
candy	4	15	60 rupees only	Delete
rice	1	150	150 rupees only	Delete
Add item		Total :	310 rupees only	

PRACTICAL – 7

Q7. Write a program to implement instant search.

Index.html

```html
<!DOCTYPE html>
<html>
<head>
<script
src="https://ajax.googleapis.com/ajax/libs/angularjs/
1.6.4/angular.min.js"></script>
<script src="index.js"></script>
</head>
<body ng-app="MyApp" ng-controller="MyCtrl">
<input type="text" placeholder="enter search text"
ng-model="mySearch">
<p ng-repeat="user in users | filter:mySearch" >
{{user.name}}
</p>
</body>
</html>
```

Index.js

```javascript
var app = angular.module('MyApp',[]);
app.controller('MyCtrl',function($scope){
var users = [{name :"jhon"},
{name :"xyz"},
{name :"asd"},
{name :"jhon"},
{name :"asd"},
{name :"xyz"}];
$scope.users = users; }
);
```

<u>Output</u>

enter search text

jhon

xyz

asd

jhon

asd

xyz

PRACTICAL – 8

Q8. Write a program to implement an order form for e-commerce website.

```
<!DOCTYPE html>
<html>
<script
src=https://ajax.googleapis.com/ajax/libs/angularjs/1
.6.9/angular.min
.js>
</script>
<body ng-app="orderForm" ng-
controller="OrderFormController">
<form action="">
<h1>Choose Clothes</h1>
<ul><li ng-repeat="service in services"
 ng-click="toggleActive(service)"
 ng-class="{active:service.active}">
 {{service.name}}<span>{{service.price |
currency}}</span>
 </li></ul>
<div class="total">
All: <span>{{total() | currency}}</span>
</div>
</form>
<script>
 angular.module('orderForm', [])
 .controller("OrderFormController", ["$scope",
function($scope) {
$scope.services = [{
name: 'Jackets',
price: 300,
active: false
}, {
```

```
name: 'Jeans',
price: 400,
active: false
}, {
name: 'Shirt',
price: 250,
active: false
}, {
name: 'T-Shirt',
price: 220,
active: false
}];
$scope.toggleActive = (s) => {s.active = !s.active;};
$scope.total = function() {
var total = 0;
angular.forEach($scope.services, function(s) {
if (s.active) total += s.price;
});
return total; };
}]);
</script>
</body>
</html>
```

Output