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## Practical 1

**Aim:** Write a program to implement MongoDB data model

**Input:**

Embedded Data

Model

```
{
  "Id": "01",
  "Employee_Id": "2014",
  "Personal": {
    "FirstName": "Utopia",
    "LastName": "PopSmoke",
    "Class": "Maharashtra"
  },
  "address": {
    "street": "Oesis",
    "city": "Mumbai",
    "state": "Maharashtra",
    "zipCode": "400043",
    "country": "India"
  },
  "Conatct Details": {
    "email": "youknowme@gmail.com",
    "phone": "1234567890"
  }
}
```

**Output:**

```
▼ {
  ▼ "_id": {
    "$oid": "67c49ec9ac56887434f7b192"
  },
  "Id": "01",
  "Employee_Id": "2014",
  ▼ "Personal": {
    "FirstName": "Utopia",
    "LastName": "PopSmoke",
    "Class": "Maharashtra"
  },
  ▼ "address": {
    "street": "Oesis",
    "city": "Mumbai",
    "state": "Maharashtra",
    "zipCode": "400043",
    "country": "India"
  },
  ▼ "Conatct Details": {
    "email": "youknowme@gmail.com",
    "phone": "1234567890"
  }
}
```

## Normalised Data Model

### Personal Details:

```
{
  "FirstName": "Unknown",
  "LastName": "Anonymous",
  "Class": "SYCS"
}
```



```
{
  "_id": {},
  "FirstName": "Unknown",
  "LastName": "Anonymous",
  "Class": "SYCS"
}
```

### Address:


```
{
  "street": "Oesis",
  "city": "Mumbai",
  "state": "Maharashtra",
  "zipCode": "400043",
  "country": "India"
}
```



```
{
  "_id": {
    "$oid": "67c4a0f8ac56887434f7b196"
  },
  "street": "Oesis",
  "city": "Mumbai",
  "state": "Maharashtra",
  "zipCode": "400043",
  "country": "India"
}
```

### Contact Details

```
{
  "email": "youknowme@gmail.com",
  "phone": "1234567890"
}
```



```
{
  "_id": {
    "$oid": "67c4a19aac56887434f7b198"
  },
  "email": "youknowme@gmail.com",
  "phone": "1234567890"
}
```

## Practical 2

**Aim:** Write a program to implement crud operation on MongoDB.

**Input:**

Show dbs

**Output:**

```
rdj> show dbs
RDJ      8.00 KiB
admin    40.00 KiB
config   108.00 KiB
local    40.00 KiB
rdj> |
```

**Input:**

Use admin

**Output:**

```
rdj> use admin
switched to db admin
admin> |
```

**Input:**

db.createCollection("SYCS")

**Output:**

```
RDJ> db.createCollection("SYCS")
{ ok: 1 }
RDJ> |
```

**Input:**

db.sycs.insertOne({name:"Tony",age:"20",gender:"Male",address:"Nagpada"})

**Output:**

```
RDJ> db.sycs.insertOne({name:"Tony",age:"20",gender:"Male",address:"Nagpada"})
{
  acknowledged: true,
  insertedId: ObjectId('67c4a521688f38617bfa4214')
}
RDJ> |
```

**Input:**

```
db.SYCS.insertMany([
  {name:"Hulk",age:"25",gender:"Male",address:"Titwala"},
  {name:"Hawkeye",age:"20",gender:"Male",address:"Dehli"},
  {name:"Wanda",age:"18",gender:"Female",address:"Mumbai"}])
```

**Output:**

```
RDJ> db.SYCS.insertMany([
...   {name:"Hulk",age:"25",gender:"Male",address:"Titwala"},
...   {name:"Hawkeye",age:"20",gender:"Male",address:"Dehli"},
...   {name:"Wanda",age:"18",gender:"Female",address:"Mumbai"}])
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('67c4a615688f38617bfa4215'),
    '1': ObjectId('67c4a615688f38617bfa4216'),
    '2': ObjectId('67c4a615688f38617bfa4217')
  }
}
```

**Input:**

```
db.sycs.find({"age":"20"})
```

**Output:**

```
RDJ> db.sycs.find({"age":"20"})
[
  {
    _id: ObjectId('67c4a521688f38617bfa4214'),
    name: 'Tony',
    age: '20',
    gender: 'Male',
    address: 'Nagpada'
  }
]
```

**Input:**

```
db.sycs.replaceOne({name:"Hulk"},{name:"Wanda"})
```

**Output:**

```
RDJ> db.sycs.replaceOne({name:"Hulk"},{name:"Wanda"})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 0
}
```

**Input:**

```
db.sycs.updateOne({name:"Hulk"},{$set:{address:"Mumbra"}})
```

**Output:**

```
RDJ> db.sycs.updateOne({name:"Hulk"},{$set:{address:"Mumbra"}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 0
}
```

**Input:**

```
db.syncs.deleteOne({name:"Hawkeye"})
```

**Output:**

```
RDJ> db.syncs.deleteOne({name:"Hawkeye"})
{ acknowledged: true, deletedCount: 0 }
RDJ> |
```

**Input:**

```
db.syncs.deleteMany({gender:"female"})
```

**Output:**

```
RDJ> db.syncs.deleteMany({gender:"female"})
{ acknowledged: true, deletedCount: 0 }
RDJ> |
```

**Input:**

```
db.dropDatabase()
```

**Output:**

```
RDJ> db.dropDatabase()
{ ok: 1, dropped: 'RDJ' }
RDJ> |
```

## **Practical 3**

**Aim:** Write a program to perform validation of a form using AngularJS.

**Input:**

```
<!Doctype html>
<html>
```

```
<head>
```

```
<title>AngularJS Form Validation</title>
```

```
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.4.8/angular.min.js"> </script>
```

```
<script type="text/javascript">
```

```
var app = angular.module('formApp', []);
```

```
app.controller('formCtrl', function ($scope) {
```

```
    $scope.sendForm = function () {
```

```
        $scope.msg = "Form Validated";
```

```
    };
```

```
});
```

```
</script>
```

```
</head>
```

```
<body>
```

```
<div ng-app="formApp" ng-controller="formCtrl">
```

```
<h2>AngularJS Form Validations</h2>
```

```
<form name="personForm" ng-submit="sendForm()">
```

```
    First Name:<input type="text" name="firstname" ng-model="person.fname" required />
```

```
<span ng-show="personForm.firstname.$error.required">Required!</span>
```

```
<br /><br />
```

```
    Last Name:<input type="text" name="lastname" ng-model="person.lname" required />
```

```
<span ng-show="personForm.lastname.$error.required">Required!</span>
```

```
<br /><br />
```

```
<button type="submit">Submit Form</button><br /><br />
```

```
<span>{{msg}}</span>
```

```
</form>
```

```
</div>
```

```
</body>
```

```
</html>
```

**Output:**

## **AngularJS Form Validations**

First Name:

Last Name:

Form Validated

## Practical 4

**Aim:** Write a program to create and implement modules.

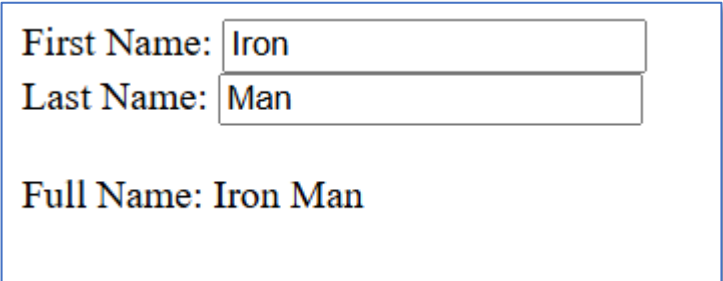
**Input:**

```
<!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">
    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 = "Iron";
      $scope.lastName = "Man";
    });
  </script>
</body>

</html>
```

**Output:**



First Name:

Last Name:

Full Name: Iron Man



## Practical 5

**Aim:** Write a program to implement Controller in AngularJS.

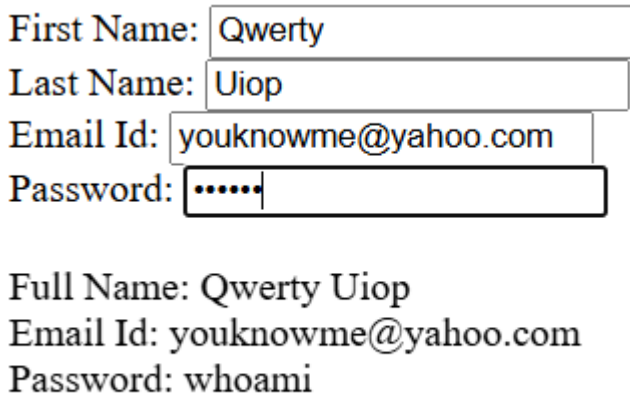
**Input:**

```
<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">
    First Name: <input type="text" ng-model="firstName"><br> Last Name: <input type="text" ng-
model="lastName"><br>
    Email Id: <input type="text" ng-model="EmailId"><br> Password: <input type="password" ng-
model="password"><br>
    <br>
    Full Name: {{firstName + " " + lastName}} <br> Email Id: {{EmailId}}<br>
    Password: {{password}}
  </div>
<script>
  var app = angular.module('myApp', []); app.controller('myCtrl', function ($scope) {
    $scope.firstName = "";
    $scope.lastName = "";
    $scope.EmailId = "";
    $scope.password = "";
  });
</script>
</body>

</html>
```

**Output:**



The screenshot displays the rendered HTML from the AngularJS application. It shows four input fields: 'First Name' with the value 'Qwerty', 'Last Name' with 'Uiop', 'Email Id' with 'youknowme@yahoo.com', and 'Password' with masked characters '.....'. Below these fields, the application displays the computed values: 'Full Name: Qwerty Uiop', 'Email Id: youknowme@yahoo.com', and 'Password: whoami'.

First Name: Qwerty  
Last Name: Uiop  
Email Id: youknowme@yahoo.com  
Password: .....

Full Name: Qwerty Uiop  
Email Id: youknowme@yahoo.com  
Password: whoami

## Practical 6

**Aim:** Create a simple html “Hello World” project using angularJs Framework and apply ng-controller, ng-model, and expressions.

**Input:**

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="utf-8">
  <title>Angular Demo</title>
  <script
src="http://ajax.googleapis.com/ajax/libs/angularjs/1.4.8/angular.min.js"><
/script>
  <script>
    var myApp = angular.module("AngularApp", []);
    myApp.controller("HelloController", function ($scope) {
      $scope.txtname = "";
    });
  </script>
</head>

<body ng-app="AngularApp">
  <div ng-controller="HelloController">
    Enter name: <input type="text" ng-model="txtname">
    <p>Entered Text: {{txtname}}</p>
  </div>
</body>

</html>
```

**Output:**

Enter name:

Entered Text: Marvel Cinematic