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### **AIT practical**

- 1. Write an AngularJS script to print details of bank (bank name, MICR code, IFC code, address etc.) in tabular form using ng-repeat.**

```
<!DOCTYPE html>
<html ng-app="bankApp">

<head>
  <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></script>
  <style>
    table {
      border-collapse: collapse;

      table, th, td {    border:
1px solid black;
padding: 5px;
    }
  </style>
</head>

<body>
  <div ng-controller="BankController">
    <table>
      <thead>
        <tr>
          <th>Bank Name</th>
          <th>MICR Code</th>
          <th>IFC Code</th>
          <th>Address</th>
        </tr>
      </thead>
      <tbody>
        <tr ng-repeat="bank in banks">
          <td>{{ bank.name }}</td>
          <td>{{ bank.micr }}</td>
          <td>{{ bank.ifc }}</td>
          <td>{{ bank.address }}</td>
```

```

        </tr>
    </tbody>
</table>
</div>

<script>
angular.module('bankApp', [])
.controller('BankController', ['$scope', function($scope) {
    $scope.banks = [
        {
            name: 'Bank A',
            micr: '123456789',
            ifc: 'ABC123',
            address: '123 Main St, City A'
        },
        {
            name: 'Bank B',
            micr: '987654321',
            ifc: 'XYZ789',
            address: '456 Elm St, City B'
        },
        {
            name: 'Bank C',
            micr: '543216789',
            ifc: 'DEF456',
            address: '789 Oak St, City C'
        }
        // Add more banks as needed
    ];
    }]);
</script>
</body>

</html>

```

OUTPUT

Bank Name	MICR Code	IFC Code	Address
Bank A	123456789	ABC123	123 Main St, City A
Bank B	987654321	XYZ789	456 Elm St, City B
Bank C	543216789	DEF456	789 Oak St, City C

**2. Write an AngularJS script for addition of two numbers using nginit, ng-model & ng-bind. And also Demonstrate ng-show, ngdisabled, ng-click directives on button component.**

```
<!DOCTYPE html>
<html ng-app="calculatorApp">

<head>
  <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></script>
</head>

<body>
  <div ng-controller="CalculatorController">
    <h2>Calculator</h2>

    <label for="num1">Number 1:</label>
    <input type="number" id="num1" ng-model="number1" ng-init="number1 = 0">

    <label for="num2">Number 2:</label>
    <input type="number" id="num2" ng-model="number2" ng-init="number2 = 0">

    <button ng-click="addNumbers()" ng-disabled="!number1 || !number2">Add</button>

    <div ng-show="showResult">
      <h3>Result:</h3>
      <p ng-bind="result"></p>
    </div>
  </div>

  <script>
    angular.module('calculatorApp', [])
      .controller('CalculatorController', ['$scope', function($scope) {
        $scope.addNumbers = function() {
```

```

        $scope.result = parseFloat($scope.number1) + parseFloat($scope.number2);
        $scope.showResult = true;
    };

    $scope.showResult = false;
    });
</script>
</body>

</html>

```

OUTPUT

## Calculator

Number 1: 4   Number 2: 4  
Add

**Result:**

8

### 3 .Create a Node.js file that Insert Multiple Records in "student" table, and display the result object on console.

```

const mysql = require('mysql');

// Create a connection to the MySQL database const
connection = mysql.createConnection({
  host: 'localhost', user:
  'your_username',
  password: 'your_password',
  database: 'your_database'
});

// Connect to the database connection.connect((err)
=> {

```

```

    if (err) {
      console.error('Error connecting to the database: ' + err.stack);

      return;
    }

    console.log('Connected to the database as ID: ' + connection.threadId);
  });

  // Define the array of student records to be inserted const
  students = [
    { name: 'John Doe', age: 20, grade: 'A' },
    { name: 'Jane Smith', age: 19, grade: 'B' },
    { name: 'David Johnson', age: 21, grade: 'A+' }
    // Add more student records as needed
  ];

  // Insert multiple records into the "student" table
  connection.query('INSERT INTO student (name, age, grade) VALUES ?', [students.map(student =>
    [student.name, student.age, student.grade])], (err, result) => {
    if (err) {
      console.error('Error inserting records: ' + err.stack);
      return;
    }

    console.log('Records inserted successfully!');
    console.log('Affected rows: ' + result.affectedRows);
    console.log('Inserted rows: ' + result.insertedRows);
  });

  // Close the database connection connection.end((err)
  => {
    if (err) {
      console.error('Error closing the database connection: ' + err.stack);
    }
  });

```

```
    return;  
  }  
  console.log('Database connection closed.');
```

#### **4 .Create a Node.js application that uses user defined module to find area of rectangle and display details on console.**

```
// rectangle.js module.exports = {  
  calculateArea: function(length, width) {  
    return length * width;  
  }  
};  
  
// app.js const rectangle =  
require('./rectangle'); const length = 5;  
const width = 10;  
  
const area = rectangle.calculateArea(length, width);  
  
console.log('Rectangle Details:');  
console.log('-----');  
console.log(`Length: ${length}`);  
console.log(`Width: ${width}`);  
console.log(`Area: ${area}`);
```

OUTPUT  
Rectangle Details:

-----

Length: 5

Width: 10

Area: 50