 Marwadi University	Marwadi University Faculty of Technology Department of Information and Communication Technology	
Subject: AWT (01CT1625)	Aim: Create an application for student result management using React JS.	
Experiment No: 1	Date:	Enrollment No: 92200133005

AIM: Create an application for student result management using React JS.

CODE:

App.js

```
import React, { useState } from 'react';

import StudentForm from './components/StudentForm';
import StudentList from './components/StudentList';
import './App.css';

const App = () => {

  const [students, setStudents] = useState([]);

  const addStudent = (student) => {
    setStudents([...students, student]);
  };

  const calculateAverage = () => {
    if (students.length === 0) return 0;

    const total = students.reduce((sum, student) => sum + student.marks, 0);

    return (total / students.length).toFixed(2);
  };

  import React, { useState } from 'react';

  import './StudentForm.css';

  const StudentForm = ({ addStudent }) => {


    const [name, setName] = useState("");

    const [marks, setMarks] = useState("");

    const [error, setError] = useState("");

    const handleSubmit = (e) => {

      e.preventDefault();
```

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```

if (!name) {
  setError('Please enter a student name.');
```

```

  return;}

if (!marks || marks < 0 || marks > 100) {
  setError('Please enter valid marks (0-100).');
```

```

  return;}

setError("");

addStudent({ name, marks: parseInt(marks) });


setName("");

setMarks("");

};

return (
  <form onSubmit={handleSubmit} className="student-form">
    <div className="form-group">
      <label>Student Name:</label>
      <input
        type="text"
        placeholder="Enter student name"
        value={name}
        onChange={(e) => setName(e.target.value)}
      />
    </div>
    <div className="form-group">
      <label>Marks:</label>
      <input
        type="number"

```

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```

placeholder="Enter marks (0-100)"

value={marks}

onChange={(e) => setMarks(e.target.value)}

/>

</div>

{error && <p className="error">{error}</p>}

<button type="submit">Add Student</button>

</form>

);

};

export default StudentForm;

<tbody>

{students.map((student, index) => (


  <tr key={index}>

    <td>{student.name}</td>

    <td>{student.marks}</td>

```

OUTPUT:

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Sign in

React App

localhost:3002

Student Result Management

Student Name:

Enter student name

Marks:

Enter marks (0-100)

Add Student

Name	Marks
shyama	29

Average Marks: 29.00

Sign in

React App

localhost:3002

Student Result Management

Student Name:

diya

Marks:

Enter marks (0-100)

Please enter valid marks (0-100).

Add Student

Name	Marks
shyama	29

Average Marks: 29.00