WEB TECHNOLOGY LAB

LAB-5

Design and develop a responsive website to prepare one semester result of VIT students using REACT, Springboot and MySQL. Take any four subjects with MSE Marks (30%) ESE Marks (70%).

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Batch – 2

CODE:

Dashboard.js –

```
import React from 'react';
import { Link,useNavigate } from 'react-router-dom';

function FrontPage(){
    return (
        <div className="front-page">
            <h1>Welcome To VIT</h1>
            <div>
                <img
                    src={require("../profile.png")}
                    className='profile'
                />
            </div>
            <div className='main'>

                <button class="button-10" role="button"><Link to="/AddStudents">Registered Student &rarr;</Link></button>
                <button class="button-10" role="button"><Link to="/showCertificate">Show certificate &rarr;</Link></button>
            </div>
        </div>
    );
}

export default FrontPage;
```

addstudent.js -

```
import React from 'react';
import { useState } from 'react';
import { Link,useNavigate } from 'react-router-dom';
```

```
function AddStudents(){

    const [name,setName] = useState("");
    const [grno,setgr] = useState("");
    const [cdm,setcdm] = useState("");
    const [cde,setcde] = useState("");
    const [ccm,setccm] = useState("");
    const [cce,setcce] = useState("");
    const [wtm,setwtm] = useState("");
    const [wte,setwte] = useState("");
    const [daam,setdaam] = useState("");
    const [daae,setdaae] = useState("");
    const navigate = useNavigate();

    async function submit(){
        let ar = {name,grno,cdm,cde,ccm,cce,wtm,wte,daam,daae};
        // alert(ar);
        if(!name || !grno || !cdm || !cde || !ccm || !wtm || !wte || !cce || !daam || !daae){
            alert("No field should be empty");
            return false;
        }
            // e.preventDefault()
            // const student={name,address}
            // console.log(student)
            fetch("http://localhost:8080/student/add",{
            method:"POST",
            headers:{"Content-Type":"application/json"},
            body:JSON.stringify(ar)

        }).then(()=>{
            alert("New Student added");
            // window.location.reload();
            navigate("/");

        })
    }
```

```
return (
    <div className="Student">
    <h1>Student Registration</h1>
        <section className="grid">
            <div className='flexSignup'>
                <label style={{marginright:"10px"}}>Name: </label>
                <input className="inputtext" placeholder='Your Name' value={name} onChange={e=>setName(e.target.value)}/>
            </div>
            <div className='flexSignup'>
                <label>GRNO: </label>
                <input className="inputtext" placeholder='Your GRNO' value={grno}
                    onChange={e=>setgr(e.target.value)}
                />
            </div>
            <div className='flexSignup'>
                <label>Compiler Design: </label>
                <div>
                    <input placeholder='MSE' value={cdm} onChange={e=>setcdm(e.target.value)} />
                    <input placeholder='ESE' value={cde} onChange={e=>setcde(e.target.value)} />
                </div>
            </div>
            <div className='flexSignup'>
                <label>Cloud Computing: </label>
                <div>
                <input placeholder='MSE' value={ccm} onChange={e=>setccm(e.target.value)} />
                    <input placeholder='ESE' value={cce} onChange={e=>setcce(e.target.value)} />
                </div>
            </div>
            <div className='flexSignup'>
                <label>Web Technology: </label>
                <div>
                <input placeholder='MSE' value={wtm} onChange={e=>setwtm(e.target.value)} />
                    <input placeholder='ESE' value={wte} onChange={e=>setwte(e.target.value)} />
                </div>
            </div>
```

```
                <div className='flexSignup'>
                    <label>DAA: </label>
                    <div>
                        <input placeholder='MSE' value={daam} onChange={e=>setdaam(e.target.value)} />
                        <input placeholder='ESE' value={daae} onChange={e=>setdaae(e.target.value)} />
                    </div>
                </div>
            </section>
                <div>
                    <button  className='button-10 btn' onClick={submit}>Submit</button>
                </div>
        </div>
    )
}

export default AddStudents;
```

showstudent.js –

```
import React from "react";
import { useState } from 'react';
import { Link,useNavigate } from 'react-router-dom';

function ShowCertificate(){

    const [flag,setFlag] = useState(false);
    const [grno,setGrno] = useState(0);
    const [data,setData] = useState([]);
    const [mse,setMse] = useState(0);
    const [ese,setEse] = useState(0);
    const navigate = useNavigate();


    // let id = "12011004";
```

```
function back() {
    navigate("/");
}

function print(){
    //Set the print button visibility to 'hidden'
    var printButton = document.getElementById("printpagebutton");
    var backBtn = document.getElementById("back")
    printButton.style.visibility = 'hidden';
    backBtn.style.visibility = 'hidden';
    window.print();
    printButton.style.visibility = 'visible';
    backBtn.style.visibility = 'visible';
}

async function showres(){
    fetch(`http://localhost:8080/student/getStudent?name=${grno}`)
    .then(res=>res.json())
        .then((result)=>{

            console.log(result);
            // return ;
            if(result.grno===grno){
                setFlag(true);
                setData(result);
                setMse(parseInt(result.cdm)+parseInt(result.wtm)+parseInt(result.ccm)+parseInt(result.daam));
                setEse(parseInt(result.cde)+parseInt(result.wte)+parseInt(result.cce)+parseInt(result.daae))
                console.log("result",parseInt(result.cdm));
            }else{
                alert("enter valid no");
            }

        }
        )
}

return (
    <div>
    {!flag?
        <section className="resultPage">
                <label>Enter GRNo. </label>
                <input placeholder="Enter GRNo" value={grno} onChange={e=>setGrno(e.target.value)}/>
                <button className="button-10 btn" onClick={showres}>Submit</button>
        </section>
    :
    <div>
    <h1 className="heading">Vit Result</h1>
    <section className="result">
            <div className="name">
                <label>Name: </label>
                <label>{data.name}</label>
            </div>
            <div className="grno">
                <label>GRNO: </label>
                <label>{data.grno}</label>
            </div>
            <table>
                <tr>
                    <th>Subject</th>
                    <th>MSE</th>
                    <th>ESE</th>
                </tr>
                <tr>
                    <td>Compiler Design</td>
                    <td>{data.cdm}</td>
                    <td>{data.cde}</td>
                </tr>
                <tr>
                    <td>Cloud Computing</td>
                    <td>{data.ccm}</td>
                    <td>{data.ccm}</td>
                </tr>
                <tr>
                    <td>Web Technology</td>
                    <td>{data.wtm}</td>
                    <td>{data.wte}</td>
                </tr>
                <tr>
                    <td>DAA</td>
                    <td>{data.daam}</td>
                    <td>{data.daae}</td>
                </tr>
                <tr>
                    <td>Total</td>
                    <td>{mse}</td>
                    <td>{ese}</td>
                </tr>

            </table>
            {console.log(mse)}
            <div>
                <h1>Total Percentage={mse*0.3+ese*0.7}</h1>
            </div>
            {/* <button onClick={showres}>Submit</button> */}
            <div>
                <button id="printpagebutton" className="button-9 " onClick={print}>Print</button>
                <button id="back" className="button-9 " onClick={back}>Back</button>
            </div>
        </section>
        </div>
        }
    </div>
)
}

export default ShowCertificate;
```

app.js

```
import logo from './logo.svg';
import './App.css';
import FrontPage from './componenets/FrontPage';
import AddStudents from './componenets/AddStudents';
import ShowCertificate from './componenets/ShowStudent';
import { BrowserRouter,Routes,Route } from 'react-router-dom';

function App() {
  return (
    <div className="App">
      <BrowserRouter>
      <Routes>
      <Route path="/" element={<FrontPage/>}/>
      <Route path="/AddStudents" element={<AddStudents/>}/>
      <Route path="/showCertificate" element={<ShowCertificate/>}/>
      </Routes>
      </BrowserRouter>
    </div>
  );
}

export default App;
```

mainfile.java –

```
package com.arjuncodes.studentsystem;

import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication
public class StudentsystemApplication {
    public static void main(String[] args) {
        SpringApplication.run(StudentsystemApplication.class, args);
    }
}
```

Controller.java

```
package com.arjuncodes.studentsystem.controller;

import com.arjuncodes.studentsystem.model.Student;
import com.arjuncodes.studentsystem.service.StudentService;
import com.arjuncodes.studentsystem.service.StudentServiceImpl;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.*;

import java.util.List;

@RestController
@RequestMapping("/student")
@CrossOrigin
public class StudentController {
    @Autowired
    private StudentService studentService;
    private StudentServiceImpl service ;

    @PostMapping("/add")
    public String add(@RequestBody Student student){
        studentService.saveStudent(student);
        return "New student is added";
    }

    @GetMapping("/getAll")
    public List<Student> list(){
        return studentService.getAllStudents();
    }
    @GetMapping("/getStudent")
    public Student search(@RequestParam(value="name", defaultValue="") String name){
        System.out.println("idh feoicw eocwoihfknckshdi"+name);
        // return null;
        return studentService.getStudent(name);
    }

}
```

Model.java

```
package com.arjuncodes.studentsystem.model;

import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;

@Entity
public class Student {
    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private int id;
    private String name;
    private String grno;
    private String cdm;
    private String cde;
    private String ccm;
    private String cce;
    private String wtm;
    private String wte;
    private String daam;
    private String daae;
```

```java
    public Student() {
    }

    public int getId() {
        return id;
    }

    public void setId(int id) {
        this.id = id;
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public String getGrno() {
        return grno;
    }

    public void setGrno(String grno) {
        this.grno = grno;
    }

    // Getter methods
    public String getCdm() {
        return cdm;
    }

    public String getCde() {
        return cde;
    }
```

```
public String getCcm() {
    return ccm;
}

public String getCce() {
    return cce;
}

public String getWtm() {
    return wtm;
}

public String getWte() {
    return wte;
}

public String getDaam() {
    return daam;
}

public String getDaae() {
    return daae;
}

// Setter methods
public void setCdm(String cdm) {
    this.cdm = cdm;
}

public void setCde(String cde) {
    this.cde = cde;
}

public void setCcm(String ccm) {
    this.ccm = ccm;
```

```java
    }

    public void setCce(String cce) {
        this.cce = cce;
    }

    public void setWtm(String wtm) {
        this.wtm = wtm;
    }

    public void setWte(String wte) {
        this.wte = wte;
    }

    public void setDaam(String daam) {
        this.daam = daam;
    }

    public void setDaae(String daae) {
        this.daae = daae;
    }

}
```

Repository.java

```java
package com.arjuncodes.studentsystem.repository;

import com.arjuncodes.studentsystem.model.Student;
import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.stereotype.Repository;

@Repository
public interface StudentRepository extends JpaRepository<Student,Integer> {
}
```

File1.java –

```java
package com.arjuncodes.studentsystem.service;

import com.arjuncodes.studentsystem.model.Student;

import java.util.List;

public interface StudentService {
    public Student saveStudent(Student student);
    public List<Student> getAllStudents();
    public Student getStudent(String grno);
}
```

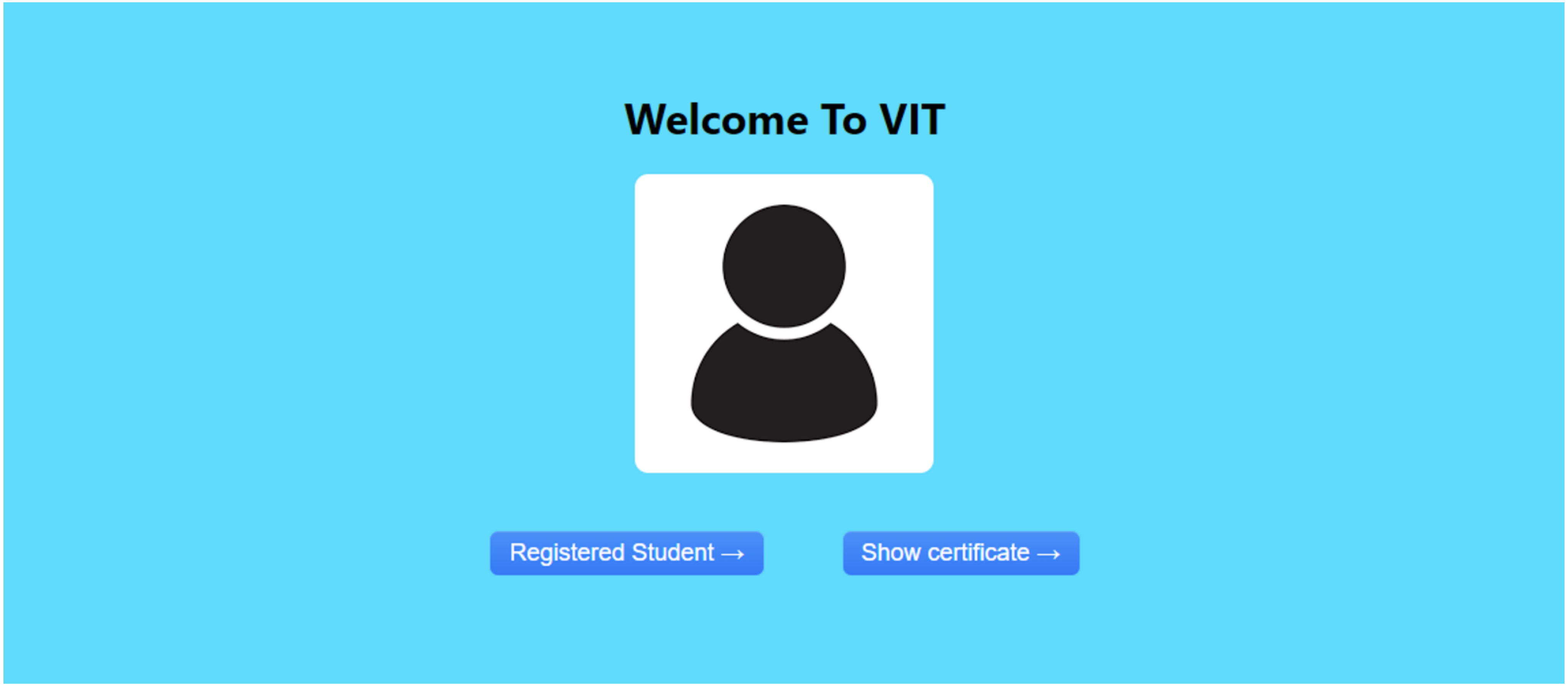
File2.java –

```java
package com.arjuncodes.studentsystem.service;

import com.arjuncodes.studentsystem.model.Student;
import com.arjuncodes.studentsystem.repository.StudentRepository;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;

import java.util.List;

@Service
public class StudentServiceImpl implements StudentService {

    @Autowired
    private StudentRepository studentRepository;

    @Override
    public Student saveStudent(Student student) {
        return studentRepository.save(student);
    }

    @Override
    public List<Student> getAllStudents() {
        return studentRepository.findAll();
    }

    @Override
    public Student getStudent(String grno) {
        System.out.print("Riteshlndlcwncdsc ldsjoewejlcmksncksn"+grno);
        Iterable<Student> list = studentRepository.findAll(); //
        for(Student student : list){
            System.out.println(student.getGrno());
            if(student.getGrno().equals(grno))
            {
                return student;
            }
        }
        Student s = new Student();
        s.setGrno(null);
        return s ;
    }
}
```

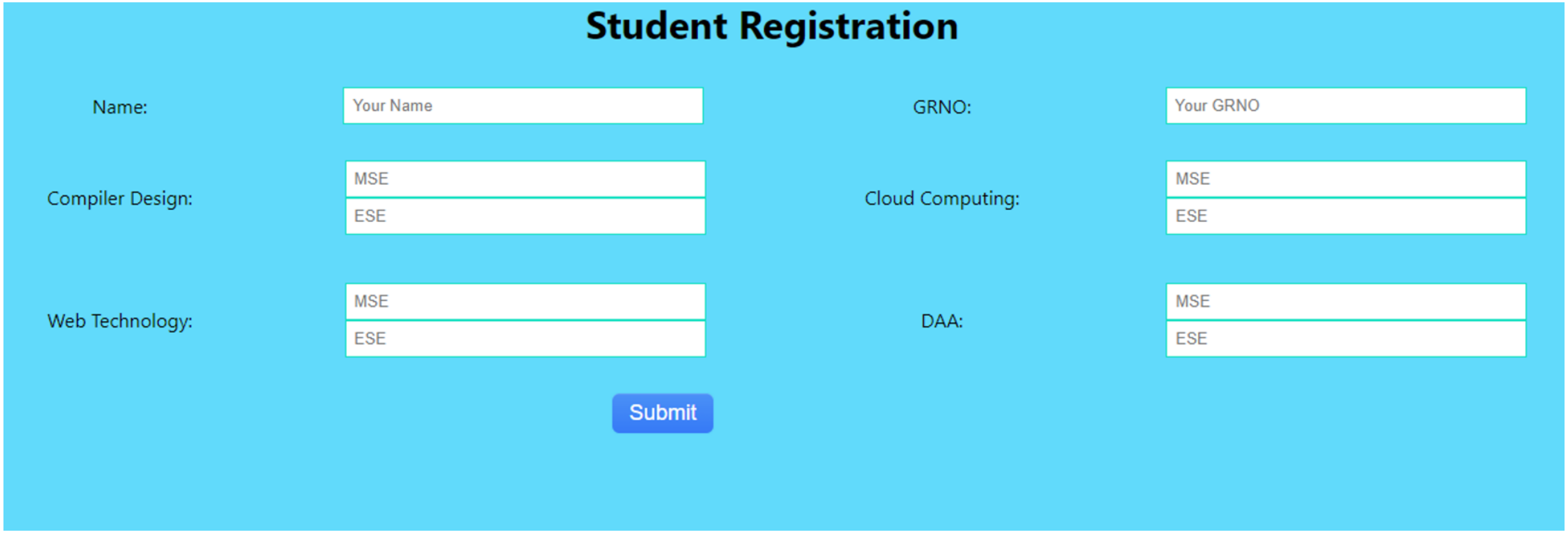
Conifg –

```
#configuration
spring.jpa.hibernate.ddl-auto=update
spring.datasource.url=jdbc:mysql://localhost:3307/vitresult
spring.datasource.username=root
spring.datasource.password=
spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver
```

OUTPUT:

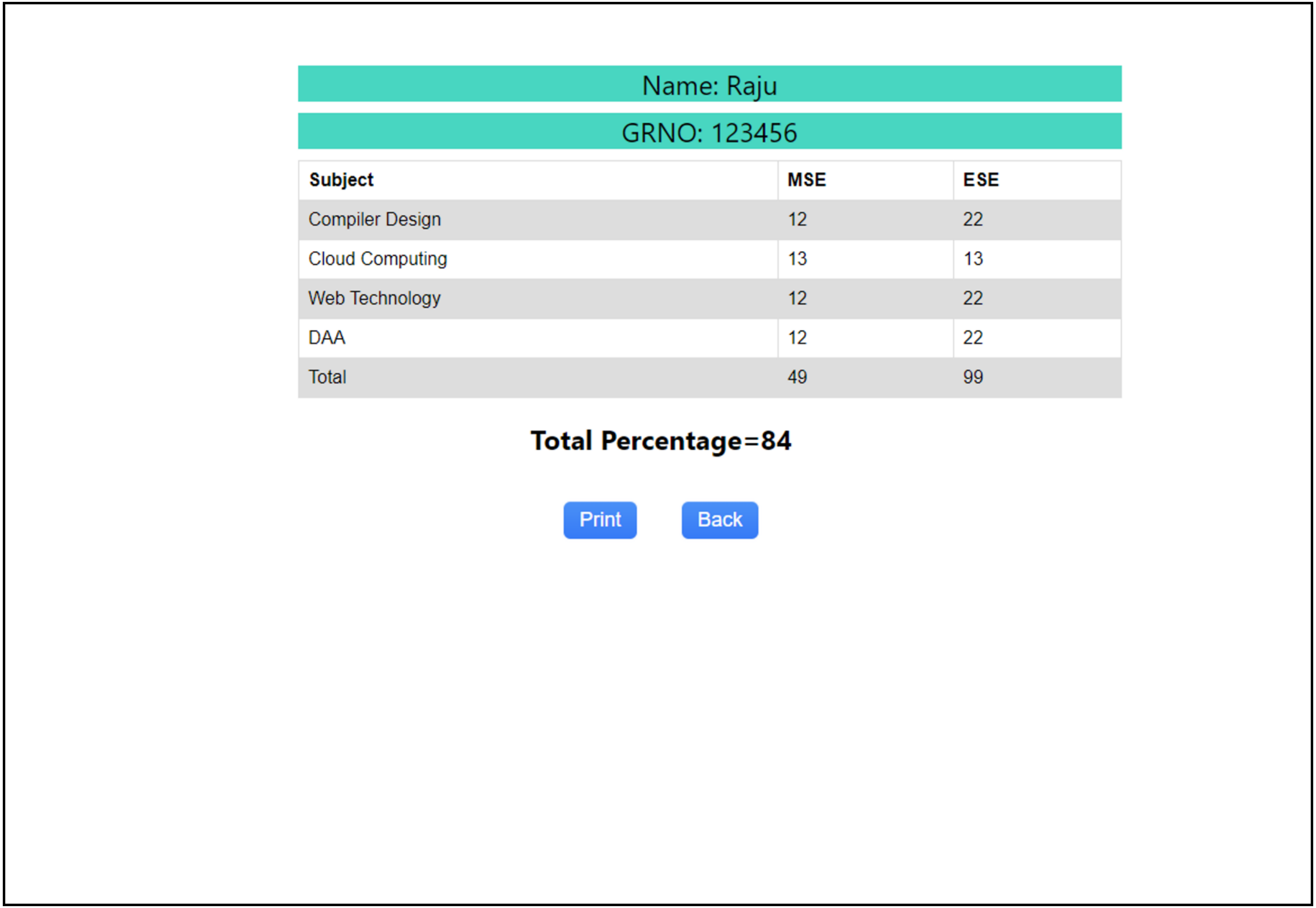


Welcome To VIT



Student Registration

Name:	Your Name	GRNO:	Your GRNO
Compiler Design:	MSE ESE	Cloud Computing:	MSE ESE
Web Technology:	MSE ESE	DAA:	MSE ESE



Name: Raju

GRNO: 123456

Subject	MSE	ESE
Compiler Design	12	22
Cloud Computing	13	13
Web Technology	12	22
DAA	12	22
Total	49	99

Total Percentage=84