IPS-12

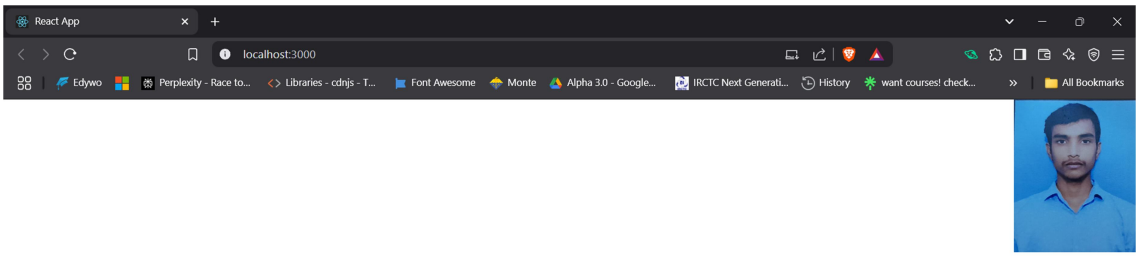
Name- Shridhan Suman

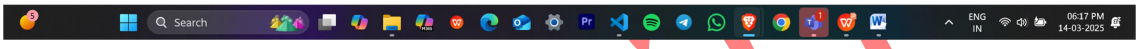
Reg.- 23BCE1279

1)

a)

```
import React from "react";
import ReactDOM from "react-dom/client";
import "./index.css";
import reportWebVitals from "./reportWebVitals";
import myPhoto from "./myself.jpeg";

const Profile = () => {
 return (
  <div>
   <div style={{ textAlign: "right" }}>
    <img src={myPhoto} alt="Profile" style={{ width: "150px"}} />
  </div>


  </div>
 );
};


const root = ReactDOM.createRoot(document.getElementById("root"));
root.render(
 <React.StrictMode>
  <Profile />
 </React.StrictMode>
);

reportWebVitals();
```

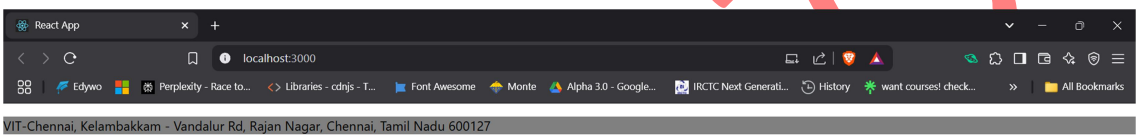


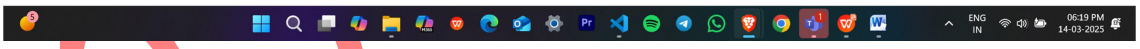


b)

```
import React from "react";

import ReactDOM from "react-dom/client";

import "./index.css";

import reportWebVitals from "./reportWebVitals";

const Profile = () => {

return (

<div>

<div style={{ backgroundColor: "gray"}}>

<p> VIT-Chennai, Kelambakkam - Vandalur Rd, Rajan Nagar, Chennai, Tamil Nadu 600127</p>

</div>

</div>

);

};
```

```
const root = ReactDOM.createRoot(document.getElementById("root"));

root.render(

<React.StrictMode>

<Profile />

</React.StrictMode>

);

reportWebVitals();
```

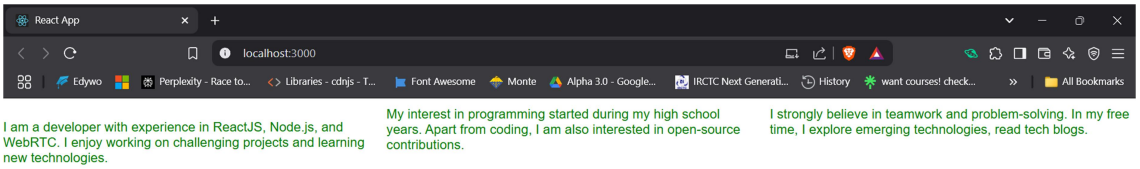


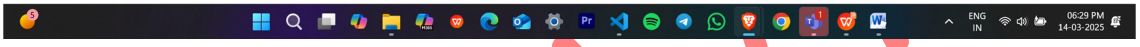


c)

```
import React from "react";

import ReactDOM from "react-dom/client";

import "./index.css";

import reportWebVitals from "./reportWebVitals";

const Profile = () => {

return (
```

```
<div>

<div style={{ color:"green",fontFamily:"Arial",fontSize: "16px", columnCount: 3, columnGap: "20px", marginTop:"10px" }}>

<p>

I am a developer with experience in ReactJS, Node.js, and WebRTC. I enjoy working on challenging projects

and learning new technologies.

</p>

<p>

My interest in programming started during my high school years. Apart from coding, I am also interested in open-source contributions.

</p>

<p>

I strongly believe in teamwork and problem-solving. In my free time, I explore emerging technologies, read tech blogs.

</p>

</div>

</div>

);

};

const root = ReactDOM.createRoot(document.getElementById("root"));

root.render(

<React.StrictMode>

<Profile />

</React.StrictMode>

);

reportWebVitals();
```





d)

index.js

```
import React from "react";
import ReactDOM from "react-dom/client";
import "./index.css";
import reportWebVitals from "./reportWebVitals";
import styles from "./Shridhan.module.css";
const Profile = () => {
return (
<div>
<table className={styles.table}>
<thead>
```

<tr>

<th>Qualification</th>

<th>Institution</th>

<th>Year</th>

<th>CGPA/Percentage</th>

</tr>

</thead>

<tbody>

<tr>

<td>10th</td>

<td>BVM Sr. Sec. School</td>

<td>2020</td>

<td>94%</td>

</tr>

<tr>

<td>12th</td>

<td>BVM Sr. Sec. School</td>

<td>2022</td>

<td>92%</td>

</tr>

<tr>

<td>B.Tech</td>

<td>VIT-Chennai</td>

<td>2023-present</td>

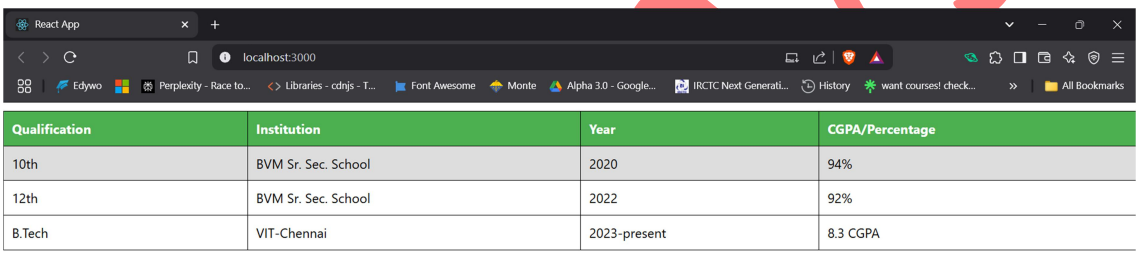
<td>8.3 CGPA</td>

```
</tr>
</tbody>
</table>
</div>
);
};
const root = ReactDOM.createRoot(document.getElementById("root"));
root.render(
<React.StrictMode>
<Profile />
</React.StrictMode>
);
reportWebVitals();
```

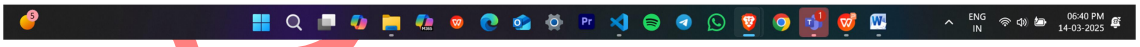
Shridhan.module.css

```
.table {
width: 100%;
border-collapse: collapse;
margin-top: 10px;
}
.table th, .table td {
border: 1px solid black;
padding: 10px;
text-align: left;
}
```

```
.table th {
background-color: #4CAF50;
color: white;
}
.table tr:hover {
background-color: #ddd;
}
```



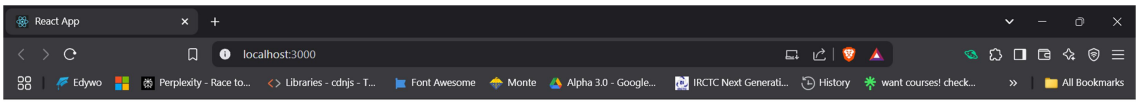
Qualification	Institution	Year	CGPA/Percentage
10th	BVM Sr. Sec. School	2020	94%
12th	BVM Sr. Sec. School	2022	92%
B.Tech	VIT-Chennai	2023-present	8.3 CGPA

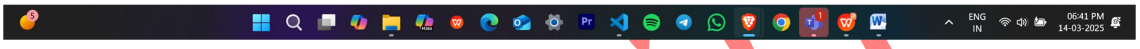


e)

```
import React from "react";
import ReactDOM from "react-dom/client";
import "./index.css";
import reportWebVitals from "./reportWebVitals";
```

```
const Profile = () => {
return (
<div>
<h3>Technologies Known</h3>
<ol style={{ color: "blue", fontSize: "14px", paddingLeft: "20px" }}>
<li>ReactJS</li>
<li>Node.js</li>
<li>MongoDB</li>
<li>WebRTC</li>
<li>JavaScript</li>
</ol>
</div>
);
};
const root = ReactDOM.createRoot(document.getElementById("root"));
root.render(
<React.StrictMode>
<Profile />
</React.StrictMode>
);
reportWebVitals();
```

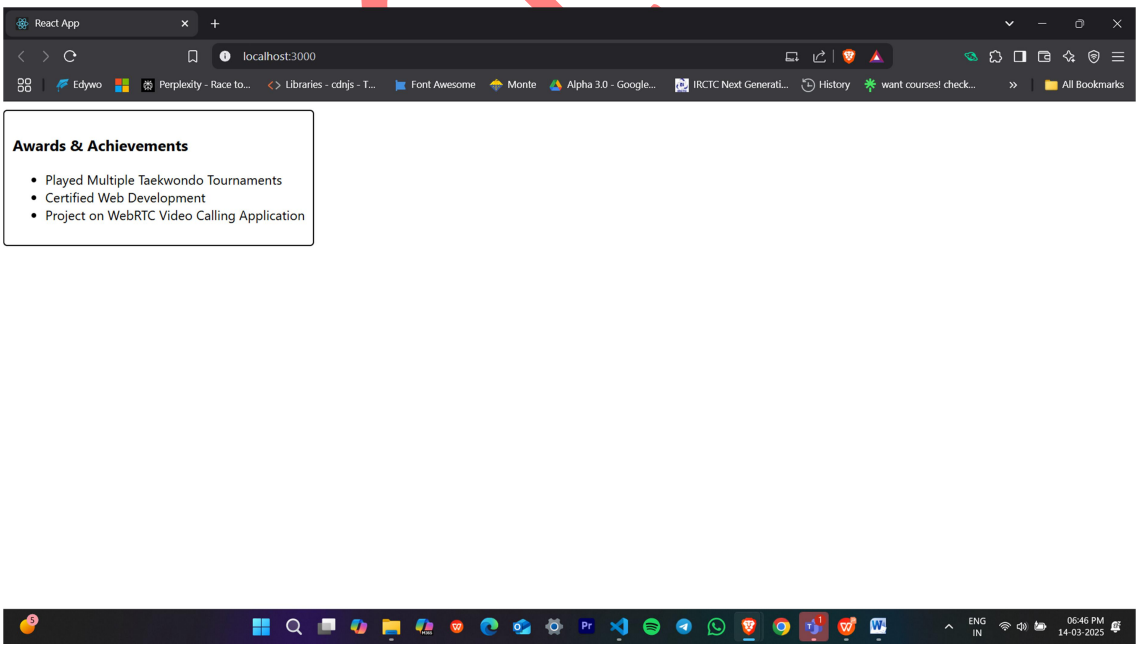




f)

```
import React from "react";

import ReactDOM from "react-dom/client";

import "./index.css";

import reportWebVitals from "./reportWebVitals";

const Profile = () => {

return (

<div>

<div style={{ border: "2px solid black", padding: "10px", marginTop: "10px", borderRadius: "5px", width: "fit-content" }}>

<h3>Awards & Achievements</h3>

<ul>

<li>Played Multiple Taekwondo Tournaments</li>

<li>Certified Web Development</li>

<li>Project on WebRTC Video Calling Application</li>
```

```
</ul>

</div>

</div>

);

};

const root = ReactDOM.createRoot(document.getElementById("root"));

root.render(

<React.StrictMode>

<Profile />

</React.StrictMode>

);

reportWebVitals();
```



2)

a)

calculate.js

```
export const convert = (fahrenheit) => {
return ((fahrenheit - 32) * 5) / 9;
};
```

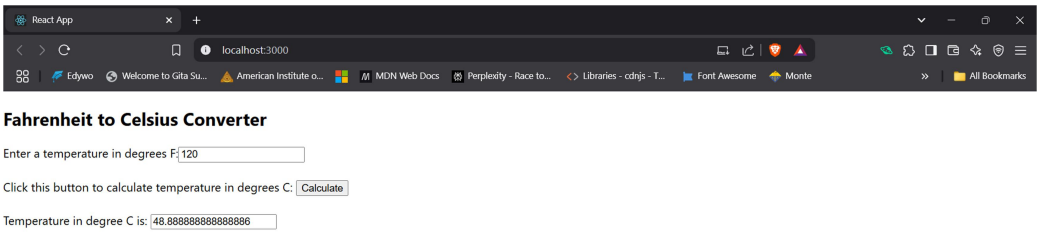
design.js

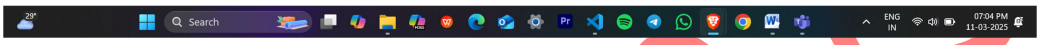
```
import React, { useState } from "react";
import { convert } from "./calculate";
const Converter = () => {
const [fahrenheit, setFahrenheit] = useState("");
const [celsius, setCelsius] = useState(null);
const handleConvert = () => {
setCelsius(convert(parseFloat(fahrenheit)));
};
return (
<div>
<h2>Fahrenheit to Celsius Converter</h2>
<label>Enter a temperature in degrees F:</label>
<input  type="number" value={fahrenheit} onChange={(e) => setFahrenheit(e.target.value)}
/> <br /><br />
<label>Click this button to calculate temperature in degrees C: </label>
<button onClick={handleConvert}>Calculate</button><br></br><br></br>
<label>Temperature in degree C is: </label>
```

```
<input value={celsius} readOnly/>
</div>
);
};
export default Converter;
```

index.js

```
import React from 'react';
import ReactDOM from 'react-dom/client';
import './index.css';
import reportWebVitals from './reportWebVitals';
import Converter from './design';
const root = ReactDOM.createRoot(document.getElementById('root'));
root.render(
<React.StrictMode>
<Converter />
</React.StrictMode>
);
reportWebVitals();
```





b)

namelogic.js

```
export const ShowFullName = (firstName,lastName) => {
return (`${firstName} ${lastName}`);
};
```

name.js

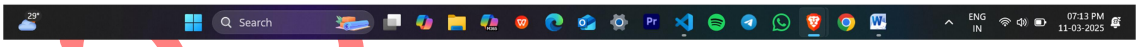
```
import React, { useState } from "react";
import { ShowFullName } from "./namelogic";
const FullName = () => {
const [firstName, setFirstName] = useState("");
const [lastName, setLastName] = useState("");
const [fullName, setFullName] = useState("");
const handleConvert = () => {
```

```
setFullName(ShowFullName(firstName,lastName));
};
return (
<div>
<h2>Full Name Generator</h2>
<label>First Name:</label>
<input type="text" value={firstName} onChange={(e) => setFirstName(e.target.value)}/>
<br /><br />
<label>Last Name:</label>
<input type="text" value={lastName} onChange={(e) => setLastName(e.target.value)}/>
<br /><br />
<button onClick={handleConvert}>Show Full Name</button><br /><br />
<label>Full Name:</label>
<input type="text" value={fullName} readOnly />
</div>
);
};
export default FullName;
```

index.js

```
import React from 'react';
import ReactDOM from 'react-dom/client';
import './index.css';
import reportWebVitals from './reportWebVitals';
import FullName from './name';
```

```
const root = ReactDOM.createRoot(document.getElementById('root'));

root.render(

<React.StrictMode>

<FullName />

</React.StrictMode>

);

reportWebVitals();
```



c)

digitlogic.js

```
export function count(number, oddRef, evenRef) {

if (number.length !== 4 || isNaN(number)) {

alert("Enter a valid 4-digit number.");

return;
```

```
}

const digits = number.split("").map(Number);

const oddNumbers = digits.filter(digit => digit % 2 !== 0);

const evenNumbers = digits.filter(digit => digit % 2 === 0);

if (oddRef.current && evenRef.current) {

oddRef.current.innerHTML = `The Odd Numbers are: ${oddNumbers.join(", ")} (Count:
${oddNumbers.length})`;

evenRef.current.innerHTML = `The Even Numbers are: ${evenNumbers.join(", ")} (Count:
${evenNumbers.length})`;

}

}
```

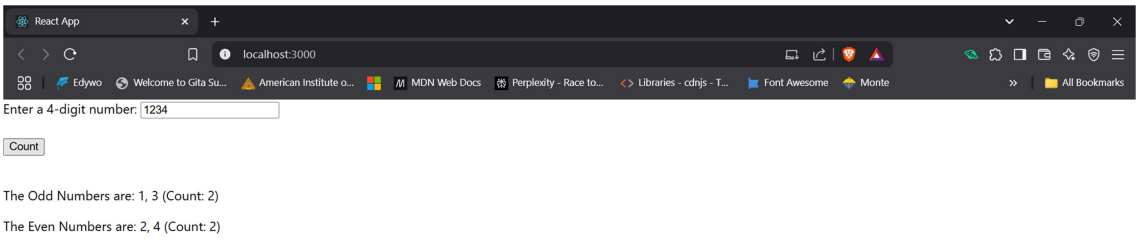
digit.js

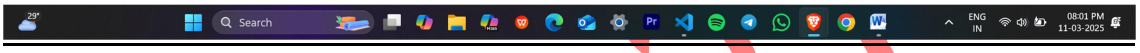
```
import React, { useState, useRef } from "react";

import { count } from "./digitlogic";

export default function OddEven() {

const [number, setNumber] = useState("");

const oddRef = useRef(null);

const evenRef = useRef(null);

const handleCount = () => {

count(number, oddRef, evenRef);

};

return (

<div>

<label>Enter a 4-digit number: </label>

<input type="text" value={number} maxLength="4" onChange={(e) =>
setNumber(e.target.value)} />
```

```
<br /><br />
<button onClick={handleCount}>Count</button>
<br /><br />
<p ref={oddRef}></p>
<p ref={evenRef}></p>
</div>
);
}
```

index.js

```
import React from 'react';
import ReactDOM from 'react-dom/client';
import './index.css';
import reportWebVitals from './reportWebVitals';
import OddEven from './digit';
const root = ReactDOM.createRoot(document.getElementById('root'));
root.render(
<React.StrictMode>
<OddEven />
</React.StrictMode>
);
reportWebVitals();
```





d)

reverselogic.js

```
export function reverse(number) {
if (number.length !== 4 || isNaN(number)) {
alert("Please enter a valid 4-digit number.");
return null;
}
return number.split("").reverse().join("");
}
```

reverse.js

```
import React, { useState } from "react";
import { reverse } from "./reverselogic";
export default function Reverse() {
const [number, setNumber] = useState("");
```

```
const handleReverse = () => {
const reversed = reverse(number);
alert(`Reversed Number: ${reversed}`);
};
return (
<div>
<label>Enter a 4-digit number: </label>
<input
type="text"
value={number}
maxLength="4"
onChange={(e) => setNumber(e.target.value)}
/>
<br /><br />
<button onClick={handleReverse}>Reverse</button>
</div>
);
}
```

index.js

```
import React from "react";
import ReactDOM from "react-dom/client";
import "./index.css";
import reportWebVitals from "./reportWebVitals";
import Reverse from "./reverse";
```

```
const root = ReactDOM.createRoot(document.getElementById("root"));

root.render(

<React.StrictMode>

<Reverse />

</React.StrictMode>

);

reportWebVitals();
```