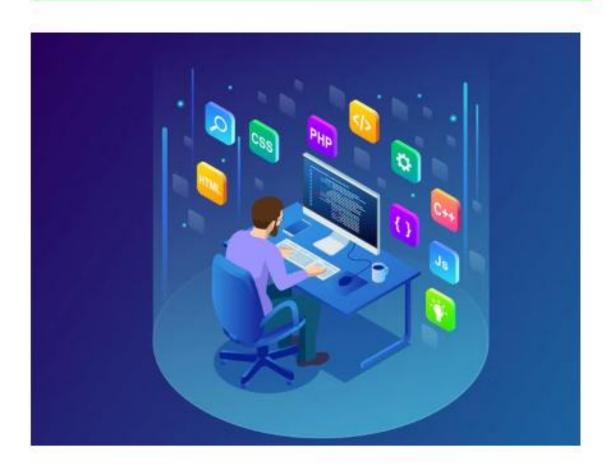
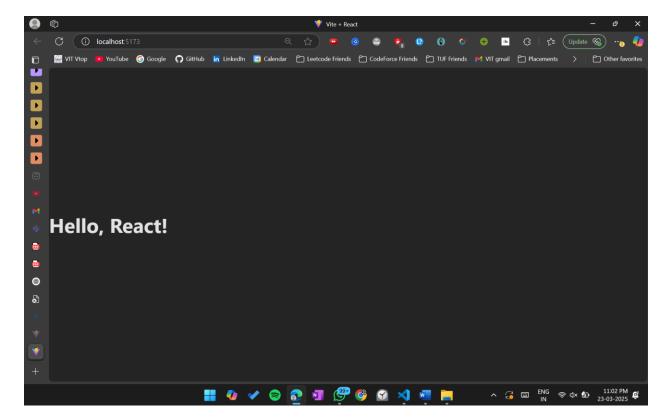
## Web Lab Exercise13



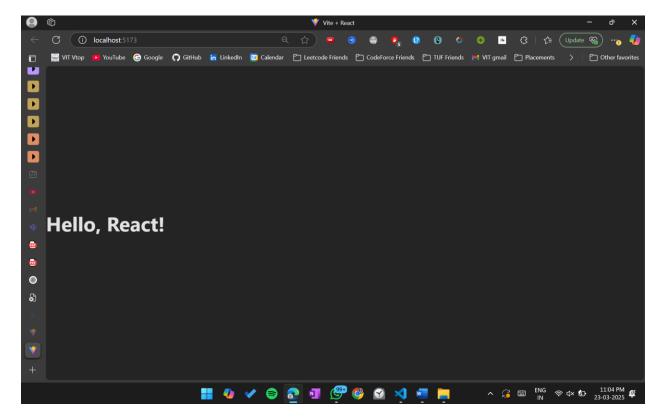
Name	Satyaprakash Swain		
Reg. no	22BCE1351		
Professor	Jenila Livingston M		
Subject	Web Programming		
Slot	L15+L16+L19+L20		
Venue	AB3 – 202		

1. (i) Create a React component that displays "Hello, React!" inside an <h1> tag without JSX.



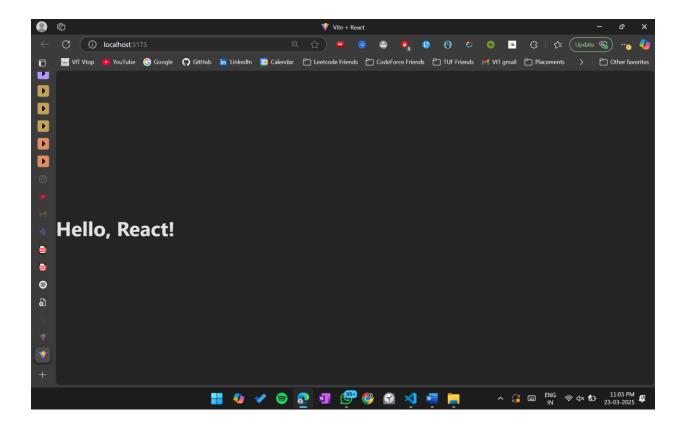
(ii) Modify the above code and solve using React JSX

```
import React from 'react';
```

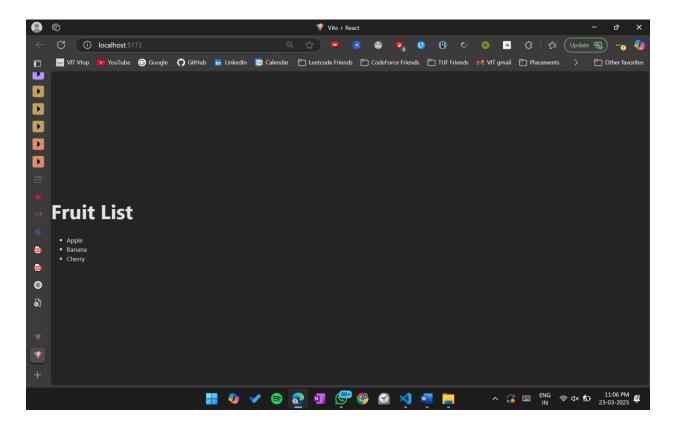


(iii) Modify the above component to display a message stored in a variable.

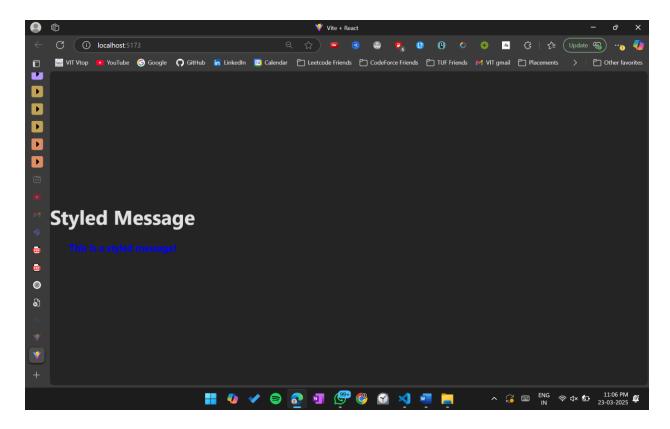
```
import React from 'react';
function HelloReact() {
```



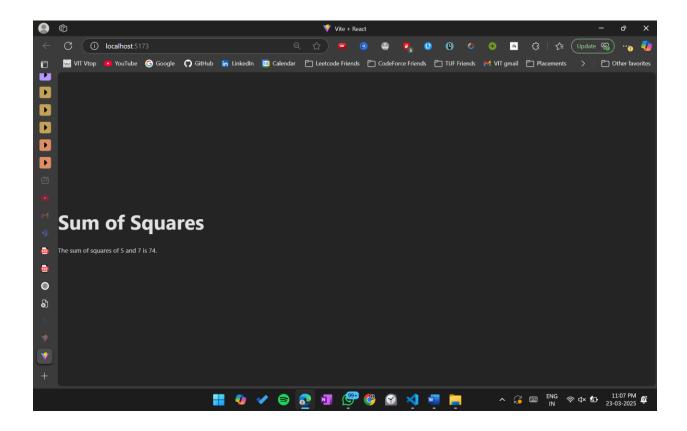
2. Create a component that renders a list of three fruits dynamically.



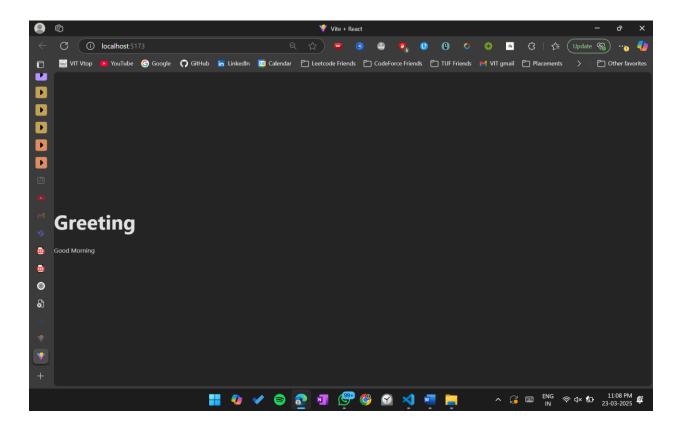
3. Create a component that displays a styled message using inline CSS in JSX.



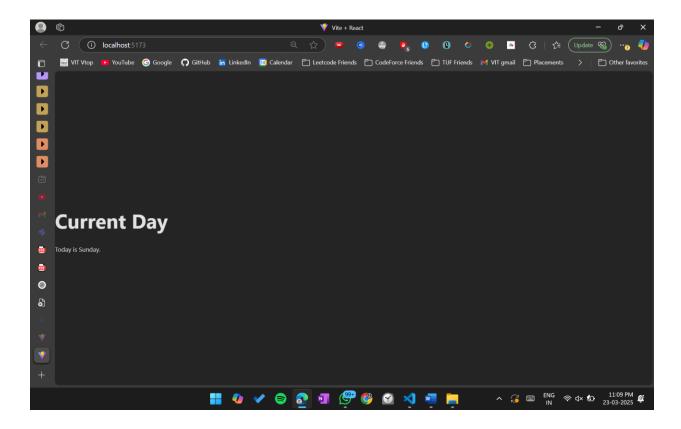
4. Create a component that displays the sum of squares of two numbers inside a tag.



5. Create a component that displays "Good Morning" if isMorning is true, otherwise display "Good Evening."



## 6. Create a React component that displays the current day of the week dynamically using JavaScript's

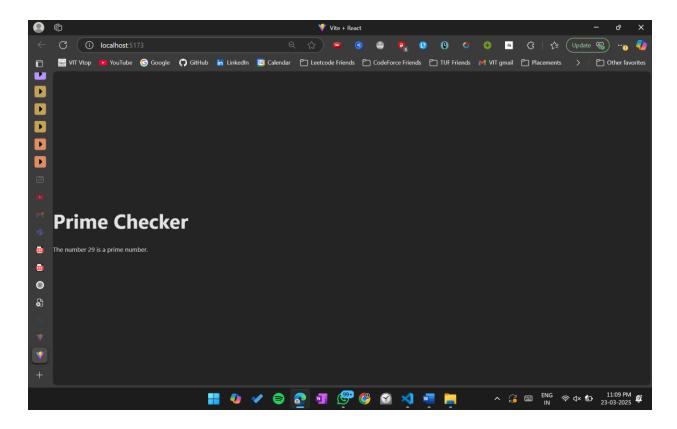


7. Create a React component that checks whether a given number is prime and displays the result.

```
import React from 'react';
function isPrime(num) {
  if (num <= 1) return false;
  for (let i = 2; i <= Math.sqrt(num); i++) {
    if (num % i === 0) return false;
  }
  return true;
}

function PrimeChecker() {
  const number = 29;
  const result = isPrime(number) ? 'is a prime number' : 'is not a prime number';
  return <p>The number {number} {result}.;
}

export default function App() {
  return (
```



8. Create a React class component called TemperatureConverter that allows the user to convert a temperature from Celsius to Fahrenheit and Fahrenheit to Celsius.

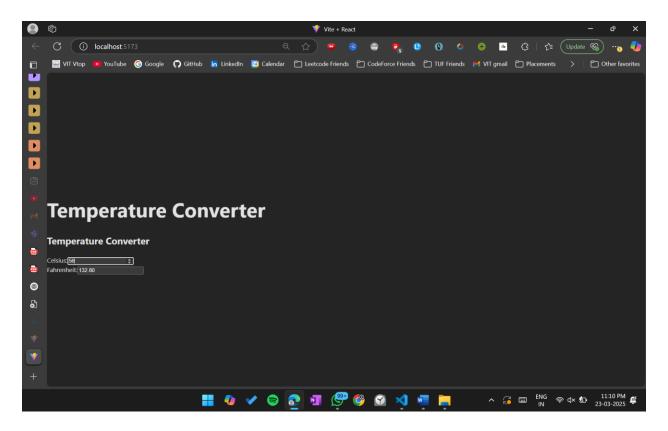
```
import React, { Component } from 'react';
class TemperatureConverter extends Component {
  constructor(props) {
    super(props);
    this.state = {
        temperature: '',
        scale: 'celsius',
    };
}

handleCelsiusChange = (e) => {
    this.setState({ temperature: e.target.value, scale: 'celsius' });
};

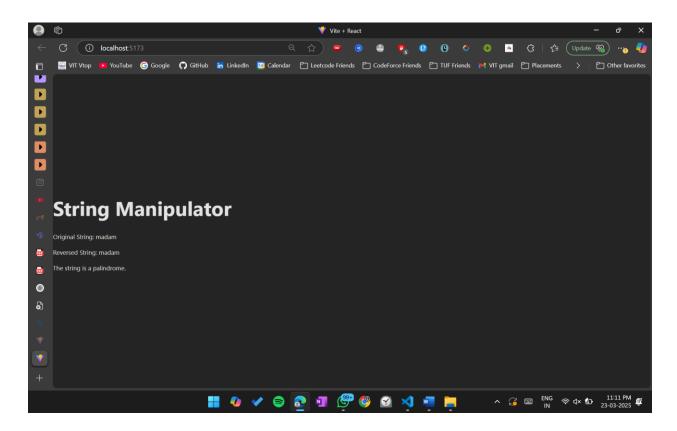
handleFahrenheitChange = (e) => {
    this.setState({ temperature: e.target.value, scale: 'fahrenheit' });
};
```

```
const { temperature, scale } = this.state;
   const celsius =
     scale === 'fahrenheit' ? ((temperature - 32) * 5) / 9 : temperature;
   const fahrenheit =
     scale === 'celsius' ? (temperature * 9) / 5 + 32 : temperature;
   return (
             type="number"
            value={scale === 'celsius' ? temperature :
celsius.toFixed(2) }
            onChange={this.handleCelsiusChange}
          Fahrenheit:
             type="number"
             value={scale === 'fahrenheit' ? temperature :
fahrenheit.toFixed(2)}
             onChange={this.handleFahrenheitChange}
export default function App() {
 return (
```

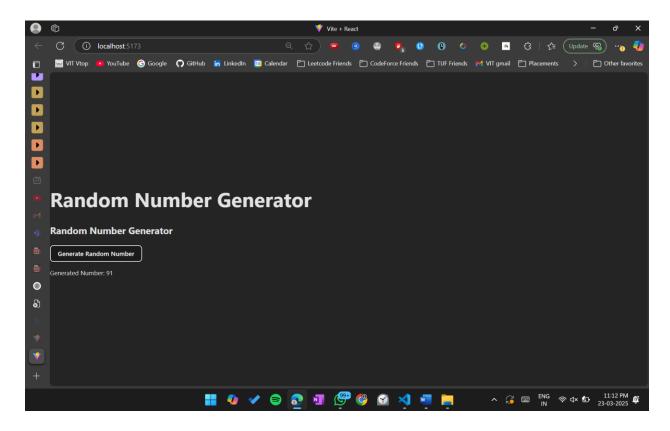
```
<TemperatureConverter />
  </div>
);
}
```



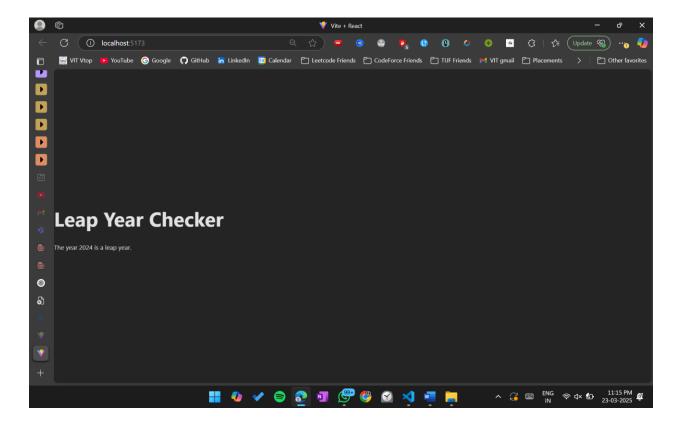
9. Create a component that takes a string (e.g., "React") and displays its reverse ("tcaeR") inside a tag and display whether the string is palindrome or not



10. Create a button that, when clicked, generates and displays a random number between 1 and 100.



11. Check If a Year is a Leap Year: Take a year (e.g., 2024) as a variable and display whether it is a leap year or not



12. Create a React class component named UserGreeting that takes two props: firstName and

lastName. Inside the render() method, display a greeting message with the full name of the user in the following format:

"Hello, [First Name] [Last Name]!"

```
);
}
```

