

Programme	:	B.Tech.	Semester	:	Winter24-25
Course	:	BCSE203E: Web Programming Lab	Slot	:	TE1/TE2
Faculty	:	Dr. LM Jenila Livingston	Marks	:	10

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Register No. 23BCE5036

## Exercise-13

```
Code:
```

```
{fruit}
      ))}
    );
};
const StyledMessage = () => {
  const style = { color: "blue", fontSize: "20px" };
  return This is a styled message.;
};
const SumOfSquares = ({ num1, num2 }) => {
  return Sum of squares: {num1 ** 2 + num2 ** 2};
};
const Greeting = ({ isMorning }) => {
  return {isMorning ? "Good Morning" : "Good Evening"};
};
const CurrentDay = () => {
  const days = ["Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday"];
  const today = new Date().getDay();
  return Today is {days[today]}.;
};
const PrimeChecker = ({ number }) => {
  const isPrime = (num) => {
    if (num < 2) return false;
    for (let i = 2; i < num; i++) {
      if (num % i === 0) return false;
    }
```

```
return true;
  };
  return {number} is {isPrime(number) ? "a Prime Number" : "not a Prime Number"}.;
};
class TemperatureConverter extends React.Component {
  constructor(props) {
    super(props);
    this.state = { temp: "", converted: "" };
  }
  convertToFahrenheit = () => {
    this.setState({ converted: (this.state.temp * 9/5) + 32 + " °F" });
  };
  convertToCelsius = () => {
    this.setState({ converted: ((this.state.temp - 32) * 5/9) + " °C" });
  };
  render() {
    return (
      <div>
        <input type="number" onChange={(e) => this.setState({ temp: e.target.value })} />
        <button onClick={this.convertToFahrenheit}>To Fahrenheit/button>
        <button onClick={this.convertToCelsius}>To Celsius</button>
        {this.state.converted}
      </div>
    );
  }
}
const ReverseString = ({ text }) => {
  const reversed = text.split(").reverse().join(");
  return Reversed: {reversed} ({text === reversed ? "Palindrome" : "Not a Palindrome"});
```

```
};
const RandomNumber = () => {
  const [number, setNumber] = useState(null);
  return (
    <div>
      <button onClick={() => setNumber(Math.floor(Math.random() * 100) + 1)}>Generate Random
Number</button>
      {number && Random Number: {number}}
    </div>
  );
};
const LeapYearChecker = ({ year }) => {
  const isLeap = (year % 4 === 0 && year % 100 !== 0) || (year % 400 === 0);
  return {year} is {isLeap ? "a Leap Year" : "not a Leap Year"}.;
};
class UserGreeting extends React.Component {
  render() {
    return <h1>Hello, {this.props.firstName} {this.props.lastName}!</h1>;
  }
}
const App = () => {
  return (
    <div>
      <HelloWithoutJSX />
      <HelloWithJSX />
      <HelloVariable />
      <FruitList />
```

## Hello, React!

## Hello, React!

- Apple
- BananaCherry

## This is a styled message.

Sum of squares: 25 Good Morning Today is Sunday.

7 is a Prime Number.

86 To Fahrenheit To Celsius
212 °F
Reversed: tcaeR (Not a Palindrome)

Generate Random Number
Random Number: 6

2024 is a Leap Year.

Hello, Sara Arora!