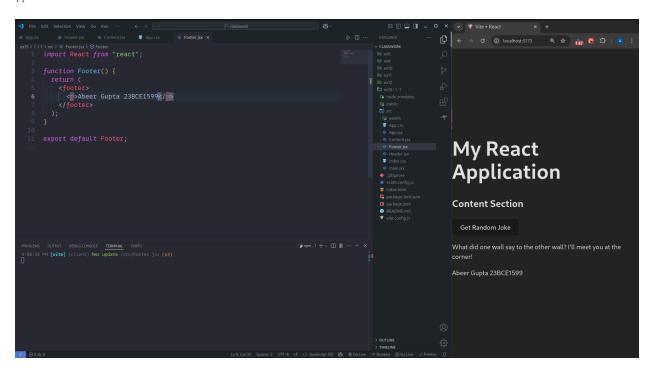
Register Number	23BCE1599	Subject Code	BCSE 308P
Name	Abeer Gupta	Subject Name	Web Programming
Programme	Scope	Slot	TE2
Course	BTech CSE Core	Faculty	Dr. LM Jenila Livingston

BCSE 203E: Web Programming Lab

Exercise 15

1.



Footer.jsx

```
import React from "react";
function Footer() {
  return (
```

```
<footer>
     Abeer Gupta 23BCE1599
     </footer>
);
}
export default Footer;
```

Content.jsx

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

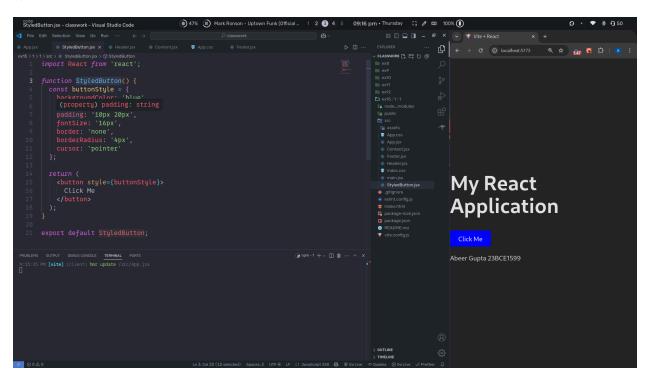
function Content() {
  const [joke, setJoke] = useState("");
  const jokes = [
    "Why don't scientists trust atoms? Because they
  make up everything!",
    "What did one wall say to the other wall? I'll meet
  you at the corner!",
    "Why did the scarecrow win an award? Because he was
  outstanding in his field!",
    "How do you organize a space party? You planet!"
];
  const getRandomJoke = () => {
```

```
const randomIndex = Math.floor(Math.random() *
jokes.length);
  return (
   <div className="content">
     <h2>Content Section</h2>
     <button onClick={getRandomJoke}>Get Random
Joke</button>
   </div>
export default Content;
```

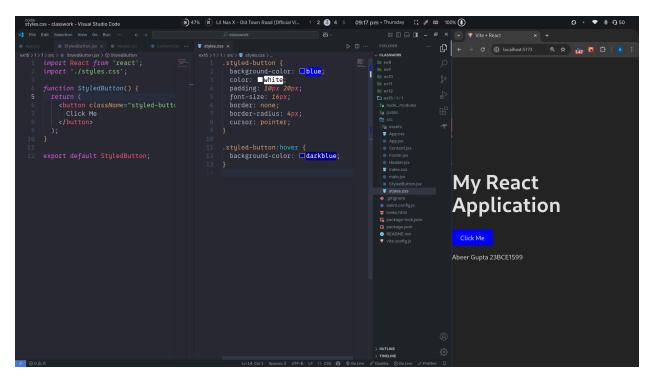
App.jsx

```
import React from "react";
import Header from "./Header";
import Content from "./Content";
import Footer from "./Footer";

function App() {
```



```
### Space | Secretary | Secret
```



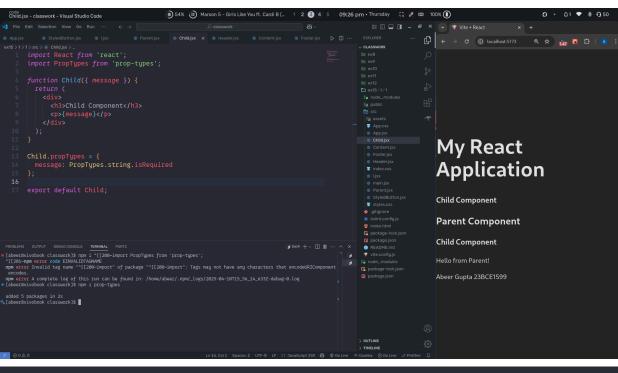
```
import React, { Component } from 'react';

class LifecycleDemo extends Component {
  constructor(props) {
    super(props);
    this.state = {
       count: 0
    };
    console.log('Constructor: Component is being initialized');
  }
}
```

```
componentDidMount() {
   console.log('componentDidMount: Component has been
rendered to the DOM');
  console.log('componentDidUpdate: Component has been
updated', {
    currentState: this.state
componentWillUnmount() {
  console.log('componentWillUnmount: Component is
about to be removed from the DOM');
updateState = () => {
  this.setState({ count: this.state.count + 1 });
```

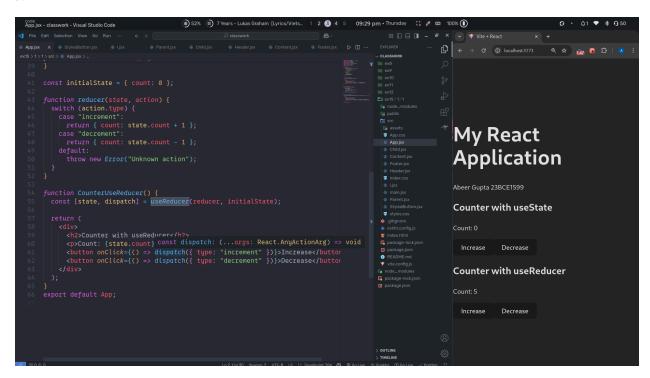
```
render() {
  console.log('Render: Component is rendering');
   return (
    <div>
      <h2>Lifecycle Demo</h2>
      Count: {this.state.count}
       <button onClick={this.updateState}>Update
State</button>
export default LifecycleDemo;
import React, { useState } from 'react';
import LifecycleDemo from './LifecycleDemo';
function LifecycleDemoContainer() {
const [isVisible, setIsVisible] = useState(true);
 return (
```

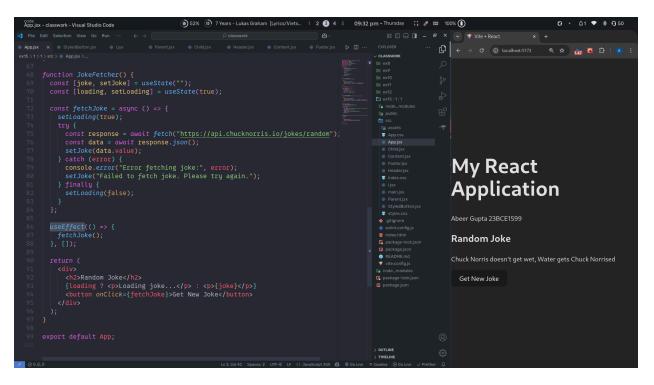
6. And 7.

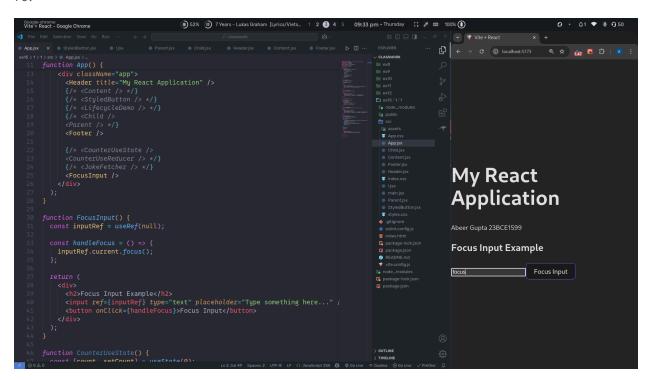


```
import React from 'react';
import PropTypes from 'prop-types';
```

```
function Child({ message }) {
return (
   <div>
     <h3>Child Component</h3>
   </div>
Child.propTypes = {
message: PropTypes.string.isRequired
};
export default Child;
```







```
(a) 55% (b) Marcon 5 - Sugar (Official Music Vide... 1 2 (3) 4 5 09:37 pm • Thursday 🖸 🗷 💯 100% 🕦
   nedComponent.jsx - classwork - Visual Studio Code
                                                            My React
                                                             Application
                                                             Theme Switcher
                                                             App
                                                              Current Theme: light
                                                               Toggle Theme
                                                              This content changes based on the selected theme.
                                                              Created by Abeer Gupta 23BCE1599
from "react";
const ThemeContext = createContext({
 theme: "light",
 toggleTheme: () => {},
});
function ThemeProvider({ children }) {
 const [theme, setTheme] = useState("light");
```

```
const toggleTheme = () => {
"dark" : "light"));
 return (
   <ThemeContext.Provider value={{ theme, toggleTheme</pre>
} }>
   </ThemeContext.Provider>
function ThemedComponent() {
const { theme, toggleTheme } =
useContext(ThemeContext);
 const themeStyles = {
```

```
color: "black",
    padding: "20px",
    backgroundColor: "black",
    padding: "20px",
return (
    <h2>Current Theme: {theme}</h2>
    <button onClick={toggleTheme}>Toggle
Theme</button>
    This content changes based on the selected
theme.
    Created by Abeer Gupta 23BCE1599
  </div>
```

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

function FormApp() {
  const [formData, setFormData] = useState({
    name: "",
    email: "",
  });

  const [stateSubmitted, setStateSubmitted] =
  useState(false);

const handleChange = (e) => {
    const { name, value } = e.target;
}
```

```
const handleStateSubmit = (e) => {
 e.preventDefault();
const nameRef = useRef(null);
const emailRef = useRef(null);
const [refSubmittedData, setRefSubmittedData] =
const handleRefSubmit = (e) => {
 e.preventDefault();
  const refData = {
    name: nameRef.current.value,
    email: emailRef.current.value,
```

```
setRefSubmittedData(refData);
<div className="form-app">
 <h1>Form Handling in React</h1>
 <div className="form-section">
    <h2>Form with useState</h2>
   <form onSubmit={handleStateSubmit}>
      <div className="form-group">
        <label htmlFor="name">Name:</label>
          type="text"
          id="name"
          name="name"
          value={formData.name}
          onChange={handleChange}
```

```
</div>
 <div className="form-group">
   <label htmlFor="email">Email:</label>
     type="email"
     id="email"
     name="email"
     value={formData.email}
     onChange={handleChange}
 </div>
 <button type="submit">Submit
</form>
<div className="form-output">
 <h3>Form Data (Updated as you type):</h3>
 Name: {formData.name}
 Email: {formData.email}
</div>
 <div className="submitted-data">
```

```
<h3>Submitted Data:</h3>
          Name: {formData.name}
          Email: {formData.email}
        </div>
     </div>
     { /* Form with useRef */}
    <div className="form-section">
      <h2>Form with useRef</h2>
      <form onSubmit={handleRefSubmit}>
        <div className="form-group">
          <label htmlFor="refName">Name:</label>
          <input type="text" id="refName"</pre>
ref={nameRef} />
        </div>
        <div className="form-group">
          <label htmlFor="refEmail">Email:</label>
          <input type="email" id="refEmail"</pre>
ref={emailRef} />
        </div>
        <button type="submit">Submit
```

```
<div className="submitted-data">
         <h3>Submitted Data:</h3>
         Name: {refSubmittedData.name}
         Email: {refSubmittedData.email}
        </div>
      Created by Abeer Gupta 23BCE1599
export default FormApp;
```