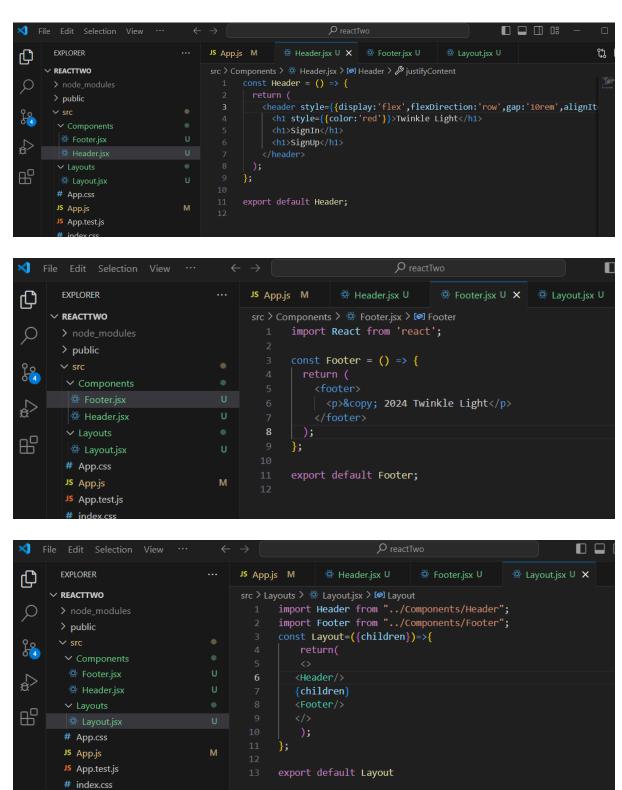
React - 2

Q1. Create two components, Header and Footer. Use them inside a Layout component to build a basic page layout.



```
≺ File Edit Selection View ···
       EXPLORER
                                         JS App.js M X 🛱 Header.jsx U
                                                                           🤀 Footer.jsx U
                                                                                              # Layout.jsx U
                                          src > JS App.js > ♦ App
     ∨ REACTTWO
                                            import Layout from './Layouts/Layout';
       > public
                                                 function App() {
       ∨ src

✓ Components

                                                       <div className="App">
                                                         <h1>Welcome to Twinkle website</h1>
                                           10
       # App.css
                                           11
       JS App.js
       JS App.test.js
        # index.css
                                                 export default App;
       JS index.js
        🖆 logo.svg
       JS reportWebVitals.js
```

Q2. Create a component with a text input field that updates the displayed text below the input field as the user types.

```
EXPLORER
                                                                                                          ₩ι ኒኒ
ф
                                    ∨ REACTTWO
                      日
日
日
日
日
                                          const TextInputComponent=()=>{
    const [InputValue,setInputValue]=useState('Sample: I Love PIZZA');
65
AP
                                                 | value={InputValue}
                                                  onChange={(e)=>setInputValue(e.target.value)}
                                                  {InputValue.toUpperCase()}
       JS App.test.js
       # index.css
       JS index.is
       🐿 logo.svg
                                          export default TextInputComponent;
       JS reportWebVitals.js
```

Q3. Write a component that uses useEffect to log "Component mounted" to the console when the component is first rendered.

```
EXPLORER
                                                   JS App.is M
                                                                                                                                  ⇔ Footer.isx U
ф
                                ರ ೯೯೮⊜
                                                   ∨ REACTTWO
         > public
                                                            const TextInputComponent=()=>{
   const [InputValue, setInputValue]=useState('Sample: I Love PIZZA')
   useEffect(()=>{
        console.log("Component mounted" );
        },[])
   return(
          Header.jsxTextInputComponent.jsx
          ✓ Layouts

В Layout.jsx
                                                                       <h2>Enter Your Favourite</h2>
          # App.css
JS App.js
                                                                       <!nput
value={InputValue}
onChange={(e)=>setInputValue(e.target.value)}
                                                                       {InputValue.toUpperCase()}
```

Q4. Create a component with a button that has inline styles applied to change its background color and text color.

```
TextInputComponent.jsx U 🗙
                                             # Header.jsx U

⇔ Footer.jsx U

      JS App.js M
      import { useEttect, useState } trom react;
            const TextInputComponent=()=>{
               const [InputValue,setInputValue]=useState('Sample: I Love PIZZA');
               useEffect(()=>{
                   console.log("Component mounted" );
                },[])
B
                   <h2>Enter Your Favourite</h2>
                    value={InputValue}
                    onChange={(e)=>setInputValue(e.target.value)}
                   {InputValue.toUpperCase()}
                   style={{backgroundColor:'yellowgreen',color:'firebrick',borderRadius:'1rem'}
                   onClick={(e)=>setInputValue('')}>
                       Refresh
                                                                        TERMINAL
        On Your Network: http://192.168.167.188:3000
      Note that the development build is not optimized.
(Q)
      To create a production build, use npm run build.
      webpack compiled successfully
```

Q5. Create a component that applies a class name based on a boolean state. For example, apply the class "active" if the state is true, and "inactive" if false.

```
| File | Edit | Selection | View | Go | Run | Terminal | Help | C | Property | Property
```

Q6. Create a parent component that passes a function as a prop to a child component. The child component should call this function when a button is clicked.

```
EXPLORER
                                                                                     # App.css M
                                         src > JS App.js > ♦ App
     ∨ REACTTWO
                                          1 import './App.css';
                                           import TextInputComponent from './Components/TextInputComponent';
       > public
                                               import Layout from './Layouts/Layout';
       ∨ src
                                               function App() {
                                          6
4
                                                const hour=()=>{
        TextInputComponent.jsx
RP.
                                                   return now.getHours;
        # App.css
        JS App.test.js
                                          13
                                                   <div className="App">
        # index.css
                                                     <h1>Welcome to Twinkle website</h1>
<TextInputComponent hour={hour}/>
        JS index.js
                                                   </div>
        logo.svg
        JS reportWebVitals.js
       JS setupTests.js
       .gitignore
      {} package-lock.json
      {} package.json
                                               export default App;
      (i) README.md
```

```
Ⅺ File Edit Selection View Go Run Terminal Help
       EXPLORER

☆ TextInputComponent.jsx U X # App.css M

仚
     ∨ REACTTWO
                                         > public
                                           const TextInputComponent=({hour})=>{
const [InputValue,setInputValue]=useState('Sample: I Love PIZZA');
                                                    useEffect(()=>{

⇔ Footer.jsx

                                                        console.log("Component mounted" );
                                                         {hour<12? <h1>Good Morning</h1>:<h1>Good Evening</h1> }
        # App.css
        JS App.test.js
        # index.css
                                                         onChange={(e)=>setInputValue(e.target.value)}
       ¹ logo.svg
       JS reportWebVitals.js
                                                        {InputValue.toUpperCase()}
       JS setupTests.js
      gitignore
      {} package-lock.json
                                                        className={InputValue ?'Active':'Inactive'}
style={{backgroundColor:'yellowgreen',color:'firebrick',borderRadius:'1rem'}}
      {} package.json
                                                        onClick={(e)=>setInputValue('')}>
                                                          Refresh
```

Q7. Create a component that accepts a greeting prop and uses "Hello" as the default value if no greeting is provided.

```
JS App.js M X 🛱 TextInputComponent.jsx U
                                            # App.css M
src > JS App.js > 🕅 App
       import './App.css';
       import TextInputComponent from './Components/TextInputComponent';
       import Layout from './Layouts/Layout';
       function App() {
         const hour=()=>{
          const now=new Date();
           return now.getHours;
 11
 13
          <Layout>
              <div className="App">
              <h1>Welcome to Twinkle website</h1>
              <TextInputComponent hour={hour} greeting='Hi'/>
           </Layout>
 19
         );
       export default App;
```

Twinkle Light

SignIn

SignUp

Welcome to Twinkle website

Hi

Good Evening

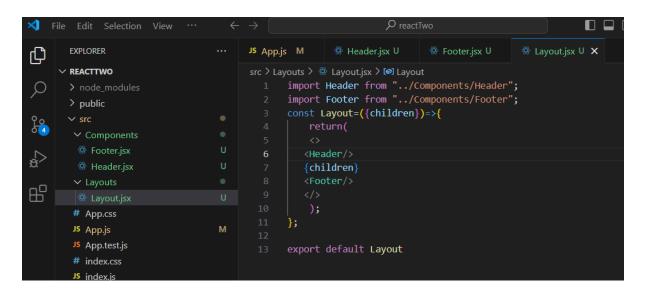
Enter Your Favourite Plz



Q8. Create a class-based component that logs a message when the component is mounted using componentDidMount.

Q9. Create a component with two input fields and display the values entered in both fields below the inputs.

Q10. Create a component that renders multiple elements without adding extra nodes to the DOM, using React.Fragment or the shorthand <> </>.



Q11. Render a list of items and use the key prop to uniquely identify each item in the list.

Q12. Create a reusable button component that accepts text and a click handler as props and renders a button with the provided text.

```
const Button=({text,onClick})=>{
    return <button onClick={onClick}>{text}</button>
    }
export default Button;
```

FINAL OUTPUT SCREEN

	Twinkle Light	SignIn	SignUp
	Welcome to Twinkle website		
		Hi	
		Good Evening	
	Enter Your Favourite Plz		
		Sample: I Love PIZZA	
		SAMPLE: I LOVE PIZZA	
		Refresh	
1.		Apple	
2. 3.		Banana Orange	
5.		o tange	
		click Here	
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