

React - Components, State, Props

Task1 - Create a React component that renders the following JSX elements:

A heading with the text "Welcome to JSX".

A paragraph explaining JSX with dynamic data (use curly braces to insert variables)

App.js

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

```
export default function App() {  
  const username = 'karan'  
  const info = 'JSX is dynamic and user: ${username}'  
  return (  
    <div>  
      <h2>Welcome to JSX</h2>  
      <p>{info}</p>  
    </div>  
  )  
}
```

Task2 Create a functional component Greeting that accepts a name as a prop and displays "Hello, [name]!"

App.js

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

```
import Greeting from './Greeting'
```

```
export default function App() {  
  return (  
    <div>  
      <Greeting name='karan' />  
    </div>  
  )  
}
```

Greeting.js

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

```
export default function Greeting(props) {  
  return (  
    <div>  
      Hello, {props.name}!  
    </div>  
  )  
}
```

Task 4: Create a class component WelcomeMessage that displays "Welcome to React!" and a render() method

WelcomeMessage.js

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

```
export default class WelcomeMessage extends Component {  
  constructor(props) {  
    super(props)  
    this.state = {  
      message: 'Welcome to React!'  
    }  
  }  
}
```

```
  render() {  
    return (  
      <div>
```

```

    {this.state.message}
  </div>
  )
}

```

App.js

```

import React from 'react'
import WelcomeMessage from './WelcomeMessage'

```

```

export default function App() {
  return (
    <div>
      <WelcomeMessage />
    </div>
  )
}

```

Task5 Create a React component UserCard that accepts name, age, and location as props and displays them in a card

App.js

```

import React from 'react'
import UserCard from './UserCard'

```

```

export default function App() {
  return (
    <div>
      <UserCard name="karan" age={21} location="India" />
    </div>
  )
}

```

UserCard.js

```

import React from 'react'

```

```

export default function UserCard({ name, age, location }) {
  return (
    <div>
      <p>Name: {name}</p>
      <p>Age: {age}</p>
      <p>Location: {location}</p>
    </div>
  )
}

```

Task 6 Create a Counter component with a button that increments a count value using React state. Display the current count

Counter.js

```

import React, { useState } from 'react'

```

```

export default function Counter() {
  const [count, setCount] = useState(0)

  return (
    <div>
      <p>Current count: {count}</p>
      <button onClick={() => setCount(count + 1)}>Add</button>
    </div>
  )
}

```

```
App.js
import React from 'react'
import Counter from './Counter'

export default function App() {
  €€return (
    €€€€<div>
    €€€€€€<Counter />
    €€€€</div>
    €€)
}
```