

Subject: 2104CS512 – JavaScript Framework

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Assignment 1: Create a function component in separate file and link with App.js

File name: App.js

```
// App.js
import React from "react";
import MyFunctionComponent from "./MyFunctionComponent";
import MessageComponent from "./MessageComponent";
import EventHandlingComponent from "./EventHandlingComponent";
import ConditionalRenderingComponent from "./ConditionalRenderingComponent";

function App() {
  return (
    <div>
      <MyFunctionComponent />
      <MessageComponent message="Hello, this is a message passed as props!" />
      <EventHandlingComponent />
      <ConditionalRenderingComponent isDisplay={true} />
      <ConditionalRenderingComponent isDisplay={false} />
    </div>
  );
}

export default App;
```

File name: MyFunctionComponent.js

```
// MyFunctionComponent.js
import React from 'react';

function MyFunctionComponent() {
  return (
    <div>
      <h1>Hello from My Function Component!</h1>
    </div>
  );
}

export default MyFunctionComponent;
```

Assignment 2: Demonstrate the ReactJS props.

File name: MessageComponent.js

```
// MessageComponent.js
import React from 'react';

function MessageComponent(props) {
  return (
    <div>
      <h2>{props.message}</h2>
    </div>
  );
}

export default MessageComponent;
```

Assignment 3: Demonstrate the Event Handling in ReactJS.

File name: EventHandlerComponent.js

```
// EventHandlerComponent.js
import React from 'react';

function EventHandlerComponent() {
  const handleClick = () => {
    alert('Button clicked!');
  };

  return (
    <div>
      <button onClick={handleClick}>Click Me</button>
    </div>
  );
}

export default EventHandlerComponent;
```

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Assignment 4: WAP in ReactJS to display the element if it has attribute called is Display to be true (using conditional rendering).

File name: ConditionalRenderingComponent.js

```
// ConditionalRenderingComponent.js
import React from 'react';

function ConditionalRenderingComponent({ isDisplay }) {
  return (
    <div>
      {isDisplay ? <h1>This element is displayed because isDisplay is true</h1> :
null}
    </div>
  );
}

export default ConditionalRenderingComponent;
```