

Assignment No	16
Title	Functional Components in React js
Objective	A) Using props to access values. B) Destructuring props to limit the data received. C) using props.children to show inheritance.
Roll No	MCA2511

Greet.js

```
import React from 'react';

// Basic props usage
// In this version, we take all props as a single object called `props`
function Greet (props)
{
    return <h1 className='App'>Hello {props.name}, {props.surname}</h1>
}

// Destructure props and use rest (...rest)
function Greet({name, surname, ...rest})
{
    return <h1 className='App'>Hello {name} {surname} {rest.year}</h1>
}

// Destructure with default values
function Greet({name, surname="NA", age="0"})
{
    return <h1 className='App'>Hello {name} {surname} {age}</h1>
}

// Extract one prop and use rest for others
function Greet({name, ...rest})
{
    return <h1 className='App'>Hello {name} {rest.surname}
{rest.age}</h1>
```

```
}
```

```
export default Greet;
```


parent.js

```
function Son(props) {  
    return (  
        <div style={{background: 'lightgreen'}}>  
            <h2>Son</h2>  
            <div>{props.children}</div>  
        </div>  
    );  
}  
  
function Daughter(props) {  
    return (  
        <div style={{background: 'lightblue'}}>  
            <h2>Daughter</h2>  
            <div>{props.children}</div>  
        </div>  
    );  
}  
  
function Parent()  
{  
    return (  
        <div>  
            <h1>My Two Children</h1>  
            <Son>  
                <p>  
                    Son Component  
                </p>  
            </Son>  
            <Daughter>  
                <p>  
                    Daughter Component  
                </p>  
            </Daughter>  
        </div>  
    );  
}
```

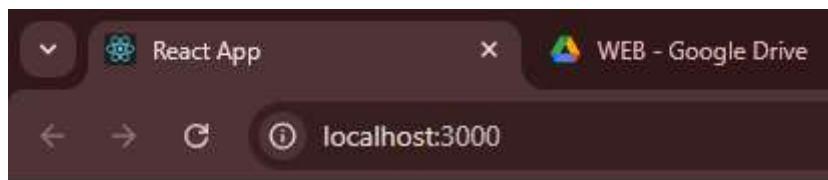
```
export default Parent;

index.js
import React from 'react';
import ReactDOM from 'react-dom/client';
import './index.css';

import Greet from './Components/Greet';
import reportWebVitals from './reportWebVitals';
import './App.css'
const root = ReactDOM.createRoot(document.getElementById('root'));
root.render(
  <React.StrictMode>
    <Greet name="Mukund" surname="Gangurde"/>
    <Greet name="Mukund" surname="Gangurde" year="2025"/>
    <Greet name="Mukund"/>
    <Greet name="Mukund" surname="Gangurde" age="2025"/>
  </React.StrictMode>
);

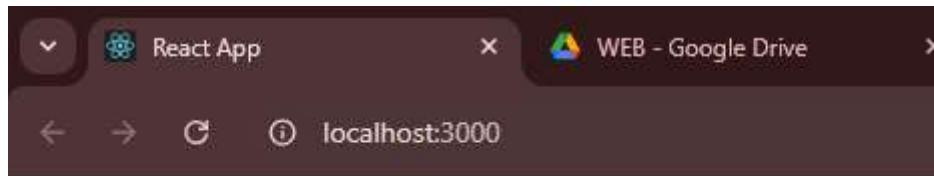
// If you want to start measuring performance in your app, pass a
function
// to log results (for example: reportWebVitals(console.log))
// or send to an analytics endpoint. Learn more:
https://bit.ly/CRA-vitals
reportWebVitals();
```

A) Using props to access values.

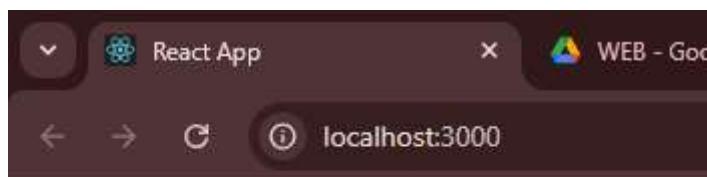


Hello Mukund, Gangurde

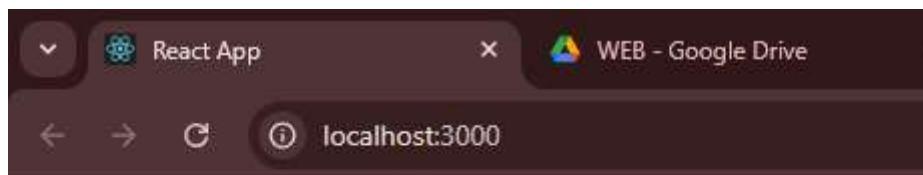
B) Destructuring props to limit the data received.



Hello Mukund Gangurde 2025



Hello Mukund NA 0



Hello Mukund Gangurde 2025

C) using props.children to show inheritance.



My Two Children

Son

Son Component

Daughter

Daughter Component