

React Props

Props are the information that you pass to a JSX tag.

```
<Product title="phone" price="30k" />
```

```
<Product title="laptop" price={40000}/>
```

```
export default function Product({ title, price }) {  
  return (  
    <div className="Product">  
      <h4>{title}</h4>  
      <p>{price}</p>  
    )  
  }  
}
```

```
import Product from "../Product.jsx"
```


Complexity is 6 It's time to do something...

```
function ProductTab() {  
  return (  
    <>  
    <Product title="Laptop" price="30000"/>  
    <Product title="Mobile Phone" price={15000}/>  
    <Product title="Pen" price={10/2}/>  
    <Product title="Eraser"/>  
    </>  
  )  
}
```


```
export default ProductTab
```

```
import "../Product.css"
```

Complexity is 5 Everything is cool!

```
function Product({title, price=1}){   
  return (  
    <div className="Product">  
      <h3>{title}</h3>  
      <h5>Price: {price}</h5>  
    </div>  
  );  
}  
  
export default Product;
```

Learning > FRONTEND > Apna College > React > React Lec

```
1  import { useState } from 'react'
2  import reactLogo from './assets/react.svg'
3  import viteLogo from '/vite.svg'
4  import './App.css'
5  import ProductTab from "./ProductTab.jsx"
6
   Complexity is 3 Everything is cool!
7  function App() { 
8      return (
9          <>
10         <ProductTab />
11         </>
12     );
13 }
14
15 export default App
```

Passing Arrays to Props

```
features={"fast", "reliable"}
```

```
features={{ a: "fast", b: "reliable" }}
```



```
1  import Product from "./Product.jsx"
2
3  function ProductTab() {
4      let options=["Hi-Tech","Durable","Fast","Redo"];
5      let obj={
6          a:"Hi-Tech",
7          b:"Durable",
8          c:"Fast",
9          d:"Redo"
10     };
11     return (
12         <>
13         <Product title="Laptop" price="30000"/>
14         <Product title="Mobile Phone" price={15000}/>
15         <Product title="Pen" price={10/2}/>
16         <Product title="Eraser"/>
17         <Product title="Options" price={1} features={options} />
18         <Product title="Options" price={1} features2={obj} />
19         </>
20     )
21 }
22
23 export default ProductTab
```

```

1  import "./Product.css"
   Complexity is 7 It's time to do something...
2  function Product({title, price=1, features="", features2=""}){
3      // console.log(features2.c);
4      // console.log(features2.b);
5      return (
6          <div className="Product">
7              <h3>{title}</h3>
8              <h5>Price: {price}</h5>
9              <p>{features}</p>
10             <p>{features2.a}</p>
11         </div>
12     );
13 }
14
15 export default Product;
16

```

Mobile Phone

Price: 15000

Pen

Price: 5

Eraser

Price: 1

Options

Price: 1

Hi-TechDurableFastRedo

Options

Price: 1

Hi-Tech

Rendering Arrays



basic-react-app > src > ProductTab.jsx > ProductTab > options

```
1  import Product from "../Product.jsx";
2
3  function ProductTab() {
4    let options = [- "hi-tech" </li>, <li>"durable" </li>, <li>"fast" </li>];
5
6    return (
7      <
8        <Product title="phone" price={30000} features={options} />
9        { /* <Product title="laptop" price={40000} />
10         <Product title="pen" price={1} /> */ }
11      </>
12    );
13  }
14
15  export default ProductTab;
16


```

basic-react-app > src >  Product.jsx >  Product

```
1  import "../Product.css";
2
3  function Product({ title, price, features }) {
4    return (
5      <div className="Product">
6        <h3>{title}</h3>
7        <h5>Price : {price}</h5>
8        <p>{features}</p>
9      </div>
10    );
11  }
12
13  export default Product;
14
```

phone

Price : 30000

- "hi-tech" 
- "durable"
- "fast"

Rendering Arrays

↓
array
↓
values X
of elements

↓
~~map~~

 "hi-tech"

basic-react-app > src >  Product.jsx >  Product >  list >  features.map() callback

```
1  import "./Product.css";
2
3  function Product({ title, price, features }) {
4    const list = features.map((feature) => <li>{feature}</li>);
5    return (
6      <div className="Product">
7        <h3>{title}</h3>
8        <h5>Price : {price}</h5>
9        <p>{list}</p>
10     </div>
11   );
12 }
13
14 export default Product;
15
```

phone

Price : 30000

- hi-tech
- durable
- fast



basic-react-app > src >  Product.jsx >  Product

```
1  import "./Product.css";
2
3  function Product({ title, price, features }) {
4    const list = features.map((feature) => <li>{feature}</li>);
5    return (
6      <div className="Product">
7        <h3>{title}</h3>
8        <h5>Price : {price}</h5>
9        <p>{features.map((feature) => <li>{feature}</li>)}</p>
10     </div>
11   );
12 }
13
14 export default Product;
15
```

phone

Price : 30000

- hi-tech
- durable
- fast

snehagupta7385@gmail.com

Conditionals

Adding elements on the basis of some condition

```
{price >= 10000 ? <p>Discount : 5%</p> : null}
```

```
{price >= 10000 && <p>Discount : 5%</p>}
```

basic-react-app > src >  Product.jsx >  Product

```
1  import "../Product.css";
2
3  function Product({ title, price, features }) {
4    if (price > 30000) {
5      return (
6        <div className="Product">
7          <h3>{title}</h3>
8          <h5>Price : {price}</h5>
9          <p>Discount of 5%</p>
10         </div>
11       );
12     } else {
13       return (
14         <div className="Product">
15           <h3>{title}</h3>
16           <h5>Price : {price}</h5>
17         </div>
18       );
19     }
20   }
21
22   export default Product;
23
```

phone

p

568 × 0

Price : 30000

laptop

Price : 40000

Discount of 5%

pen

Price : 1

basic-react-app > src >  Product.jsx >  Product

```
1  import "../Product.css";
2
3  function Product({ title, price, features }) {
4    let isDiscount = price > 30000 ? "Discount of 5%" : "";
5    return (
6      <div className="Product">
7        <h3>{title}</h3>
8        <h5>Price : {price}</h5>
9        <p>{isDiscount}</p>
10     </div>
11   );
12 }
13
14 export default Product;
15
```

snehagupta7385@gmail.com

phone

Price : 30000

laptop

Price : 40000

5%

pen

Price : 1

basic-react-app > src > Product.jsx > Product

```
1  import "../Product.css";
2
3  function Product({ title, price, features }) {
4
5      return (
6          <div className="Product">
7              <h3>{title}</h3>
8              <h5>Price : {price}</h5>
9              <p>{price > 30000 ? "Discount of 5%" : ""}</p>
10             </div>
11         );
12     }
13
14     export default Product;
15
```

phone

Price : 30000

laptop

Price : 40000

Discount of 5%

pen

Price : 1

basic-react-app > src >  Product.jsx >  Product

```
1  import "../Product.css";
2
3  function Product({ title, price, features }) {
4    return (
5      <div className="Product">
6        <h3>{title}</h3>
7        <h5>Price : {price}</h5>
8        {price > 30000 ? <p>"Discount of 5%"</p> : null}
9      </div>
10    );
11  }
12
13  export default Product;
14
```

phone

Price : 30000

laptop

Price : 40000

"Discount of 5%"

pen

Price : 1

div.Product 589.6 x 101.47

phone

Price : 30000

laptop

Price : 40000

"Discount of 5%"

pen

Price : 1

```
Elements Console >>
<!DOCTYPE html>
<html lang="en">
  <head> ... </head>
  <body>
    <div id="root">
      <div class="Product"> == $0
        <h3>phone</h3>
        <h5> ... </h5>
      </div>
      <div class="Product"> ... </div>
      <div class="Product"> ... </div>
    </div>
    <script type="module" src="/src/main.js">
  </script>
</body>
</html>

html body div#root div.Product

Styles Computed Layout Event Listener
Filter
element.style {
}
.Product {
  border: 1px solid black;
  border-radius: 14px;
  margin-bottom: 15px;
}
```

```
import "../Product.css";
```

```
function Product({ title, price, features }) {  
  return (  
    <div className="Product">  
      <h3>{title}</h3>  
      <h5>Price : {price}</h5>  
      {price > 30000 ? <p>"Discount of 5%"</p> : <a href="/">Get Discount</a>}  
    </div>  
  );  
}
```

```
export default Product;
```

phone

Price : 30000

[Get Discount](#)

laptop

Price : 40000

"Discount of 5%"

pen

Price : 1

[Get Discount](#)

Dynamic Component Styling



basic-react-app > src >  Product.jsx >  Product

```
1  import "../Product.css";
2
3  function Product({ title, price, features }) {
4    let styles = { backgroundColor: "blue" };
5
6    return (
7      <div className="Product" style={styles}>
8        <h3>{title}</h3>
9        <h5>Price : {price}</h5>
10       {price > 30000 && <p>Discount of 5%</p>}
11      </div>
12    );
13  }
14
15  export default Product;
16
```

basic-react-app > src > Product.jsx > Product > styles > backgroundColor

```
1  import "./Product.css";
2
3  function Product({ title, price, features }) {
4    let styles = { backgroundColor: "yellow" };
5
6    return (
7      <div className="Product" style={styles}>
8        <h3>{title}</h3>
9        <h5>Price : {price}</h5>
10       {price > 30000 && <p>Discount of 5%</p>}
11      </div>
12    );
13  }
14
15  export default Product;
16
```

phone

Price : 30000

laptop

Price : 40000

Discount of 5%

pen

Price : 1

basic-react-app > src > Product.jsx > Product > styles > backgroundColor

```
1  import "../Product.css";
2
3  function Product({ title, price, features }) {
4    let styles = { backgroundColor: price > 30000 ? "yellow" };
5
6    return (
7      <div className="Product" style={styles}>
8        <h3 >{title}</h3>
9        <h5>Price : {price}</h5>
10       {price > 30000 && <p>Discount of 5%</p>}
11     </div>
12   );
13 }
14
15 export default Product;
16
```

phone

Price : 30000

laptop

Price : 40000

Discount of 5%

pen

Price : 1

basic-react-app > src >  Product.jsx >  Product

```
1  import "../Product.css";
2
3  function Product({ title, price, features }) {
4    let isDiscount = price > 30000;
5    let styles = { backgroundColor: isDiscount ? "pink" : "" };
6
7    return (
8      <div className="Product" style={styles}>
9        <h3>{title}</h3>
10       <h5>Price : {price}</h5>
11       {isDiscount && <p>Discount of 5%</p> }
12     </div>
13   );
14 }
15
16 export default Product;
17
```


phone

Price : 30000

laptop

Price : 40000

Discount of 5%

pen

Price : 1

Activity

Show a Hello Message to the user in different colors.

Pass 2 values as props : userName & textColor

Learning > FRONTEND > Apna College > React > React Lecture-2 > Lecture-2 > src > </>

Complexity is 3 Everything is cool!

```
1  function message({name, textcolor}) { 
2    // let style={textColor: color}
3    return <h1 style={{ color: textcolor }}>Hello! {name}</h1>;
4  }
5  export default message;
6  |
```

Learning > FRONTEND > Apna College > React > React Lecture-2 > Lecture-2 > src >  App.jsx

```
1  import { useState } from 'react'
2  import reactLogo from './assets/react.svg'
3  import viteLogo from '/vite.svg'
4  import './App.css'
5  import ProductTab from "./ProductTab.jsx"
6  import Message from "./message.jsx"
```

Complexity is 6 It's time to do something...

```
8  function App() {
9    return (
10     <>
11       { /* Message command lines are activity perform during lecture */ }
12       <Message name="Adarsh" textcolor="Red"/>
13       <Message name="Anchal" textcolor="Violet"/>
14       <Message name="Sneha" textcolor="Purple"/>
15       <ProductTab />
16     </>
17   );
18 }
19
20 export default App
```

Hello! Adarsh

Hello! Anchal

Hello! Sneha

Laptop

Price: 30000

Mobile Phone

Price: 40000

Discount of 5%

Pen

Price: 5

Install React Developer Tools

Activity

Blockbuster Deals on Computer Accessories | Shop Now

Logitech MX Master 3S



- 8,000 DPI
- 5 Programmable Buttons

₹12,495 ₹8,999

Apple Pencil (2nd Gen)



- Intuitive touch surface
- Designed for iPad Pro

₹11,900 ₹9,199

Zebtronics Zeb-Transformer



- Intuitive touch surface
- Designed for iPad Pro

₹1,599 ₹899

Portronics Toad 23 Wireless Mouse



- Wireless Mouse 2.4GHz
- Optical Orientation

₹599 ₹278

- title
- description
- price -> old & new

Blockbuster Deals on Computer Accessories | Shop Now

<p>Logitech MX Master</p> <p>8000 DPI</p> <p>5 Programmable Buttons</p> <p>12,495 8,999</p>	<p>Apple Pencil (2nd Gen)</p> <p>Intuitive Touch Surface</p> <p>Designed for iPad Pro</p> <p>11,900 9,199</p>	<p>Zebronics</p> <p>Designed for iPad Pro</p> <p>Intuitive Touch Surface</p> <p>1,599 899</p>	<p>Petronics Toad</p> <p>Wireless Mouse 2.4GHz</p> <p>Optical Orientation</p> <p>599 278</p>
--	--	--	---


```
1  import "./Card.css"
2  import Price from "./Price.jsx"
3
4  Complexity is 7 It's time to do something...
5  function Card({title,idx}){
6      let oldPrices=["12,495","11,900","1,599","599"];
7      let newPrices=["8,999","9,199","899","278"];
8      let Description=[
9          ["8,000 DPI", "5 Programmable Buttons"],
10         ["Intuitive touch surface","Designed for iPad Pro"],
11         ["Intuitive touch surface","Designed for iPad Pro"],
12         ["Wireless Mouse 2.4GHz","Optical Orientation"]
13     ];
14     // let Description=["8,000 DPI","Intuitive touch surface","Designed for iPad Pro"];
15     return (
16         <div class="Card">
17             <h4>{title}</h4>
18             <p>{Description[idx][0]}</p>
19             <p>{Description[idx][1]}</p>
20             <Price oldPrice={oldPrices[idx]} newPrice={newPrices[idx]}/>
21         </div>
22     );
23 }
24 export default Card;
```

```
1  .Card{
2      border: 1px solid black;
3      background-color: aqua;
4      /* padding: 0 15px 0 15px; */
5      margin-bottom: 15px;
6      border-radius: 14px;
7      margin-left: 15px;
8      width: 250px;
9      height: 160px;
10 }
```

```
1  import Cards from "../Card.jsx"
2
3  Complexity is 7 It's time to do something...
4  function CardCollection(){
5      let styles={
6          display: "flex",
7          flexWrap: "wrap",
8          justifyContent: "center",
9          alignItems:"center",
10     }
11     return (
12         <div style={styles}>
13             <Cards title="Logitech MX Master" idx={0}/>
14             <Cards title="Apple Pencill (2nd Gen)" idx={1}/>
15             <Cards title="Zebronics Zeb-transformwer" idx={2}/>
16             <Cards title="Petronics Toad 23" idx={3}/>
17         </div>
18     )
19 }
20 export default CardCollection;
```

```
1  import { useState } from 'react'
2  import reactLogo from './assets/react.svg'
3  import viteLogo from '/vite.svg'
4  import './App.css'
5  // import ProductTab from "./ProductTab.jsx"
6  // import Message from "./message.jsx"
7
8  import CardCollection from "./CardCollection.jsx"
```

Complexity is 4 Everything is cool!

```
10 function App() {
11   return (
12     <>
13       /* Message command lines are activity perform during lecture */
14       /* <Message name="Adarsh" textcolor="Red"/>
15       <Message name="Anchal" textcolor="Violet"/>
16       <Message name="Sneha" textcolor="Purple"/> */
17       /* <ProductTab /> */
18
19       /* Amazon Card Activity */
20       <h1>Blockbuster Deals | Shop Now</h1>
21       <CardCollection />
22     </>
23   );
24 }
25
26 export default App
```

```
{/* Amazon Card Activity */}
```

```
<h1>Blockbuster Deals | Shop Now</h1>
```

```
<CardCollection />
```

```
</>
```

Blockbuster Deals | Shop Now

Logitech MX Master 8,000 DPI 5 Programmable Buttons 12,495 8,999	Apple Pencil (2nd Gen) Intuitive touch surface Designed for iPad Pro 11,900 9,199	Zebtronics Zeb-transformwer Intuitive touch surface Designed for iPad Pro 1,599 899	Petronics Toad 23 Wireless Mouse 2.4GHz Optical Orientation 599 278
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