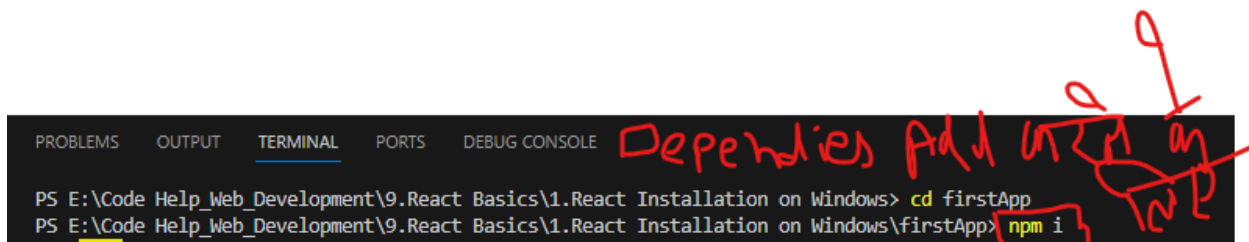


## React Basics

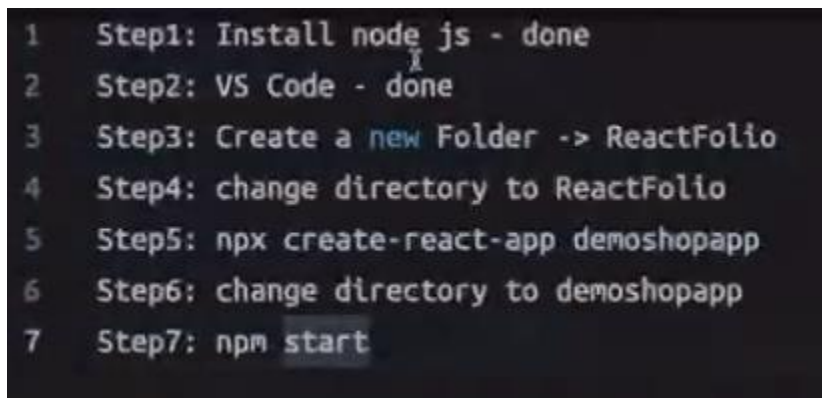


```
PROBLEMS OUTPUT TERMINAL PORTS DEBUG CONSOLE
PS E:\Code Help_Web_Development\9.React Basics\1.React Installation on Windows> cd firstApp
PS E:\Code Help_Web_Development\9.React Basics\1.React Installation on Windows\firstApp> npm i
```

**npm start** this command use for run the program.

Instead of `create-react-app my-app`, run it like `npx create-react-app my-app`. If error still exists, run 'npm install -g npx'. Then, run `npx create-react-app my-app` again.

→ sab small letter mai hona chayie



```
1 Step1: Install node js - done
2 Step2: VS Code - done
3 Step3: Create a new Folder -> ReactFolio
4 Step4: change directory to ReactFolio
5 Step5: npx create-react-app demoshopapp
6 Step6: change directory to demoshopapp
7 Step7: npm start
```

### how to install tailwind

run this command on terminal :

- 1)npx create-react-app my-project
- 2)cd my-project
- 3)npm install -D tailwindcss
- 4)npx tailwindcss init

check tailwind.config.js file. file

```
add to index.css
@tailwind base;
@tailwind components;
@tailwind utilities;
```

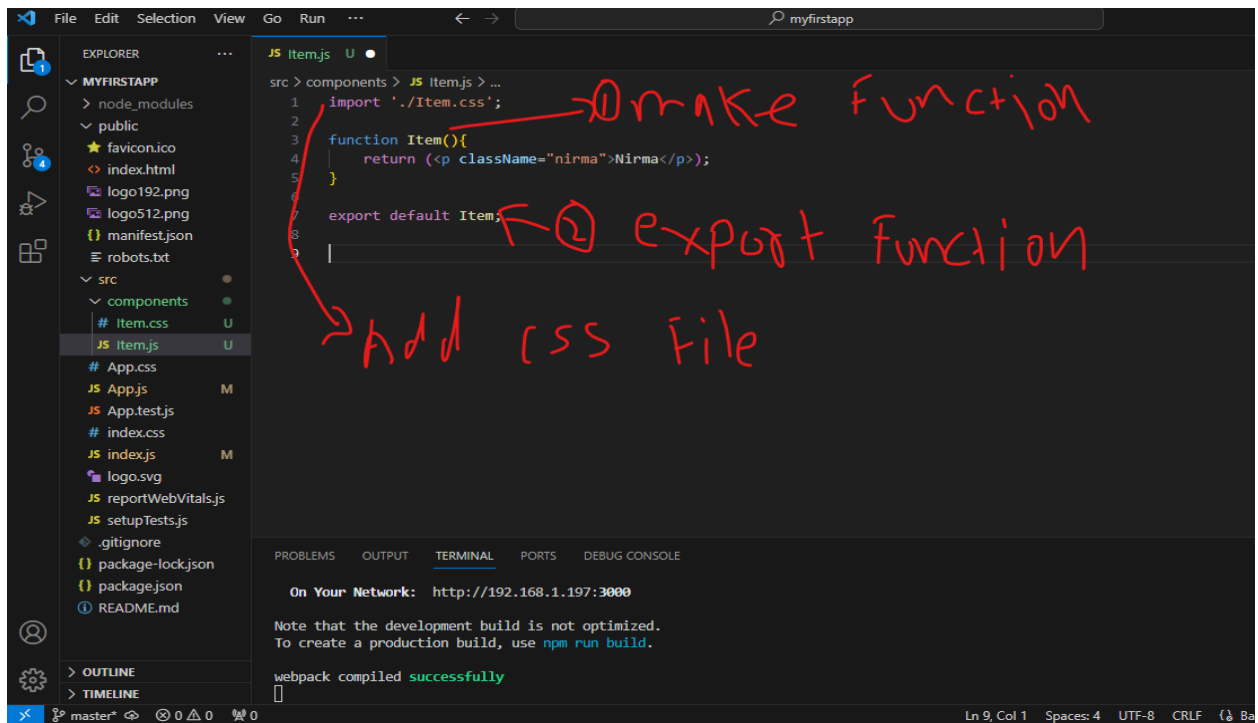
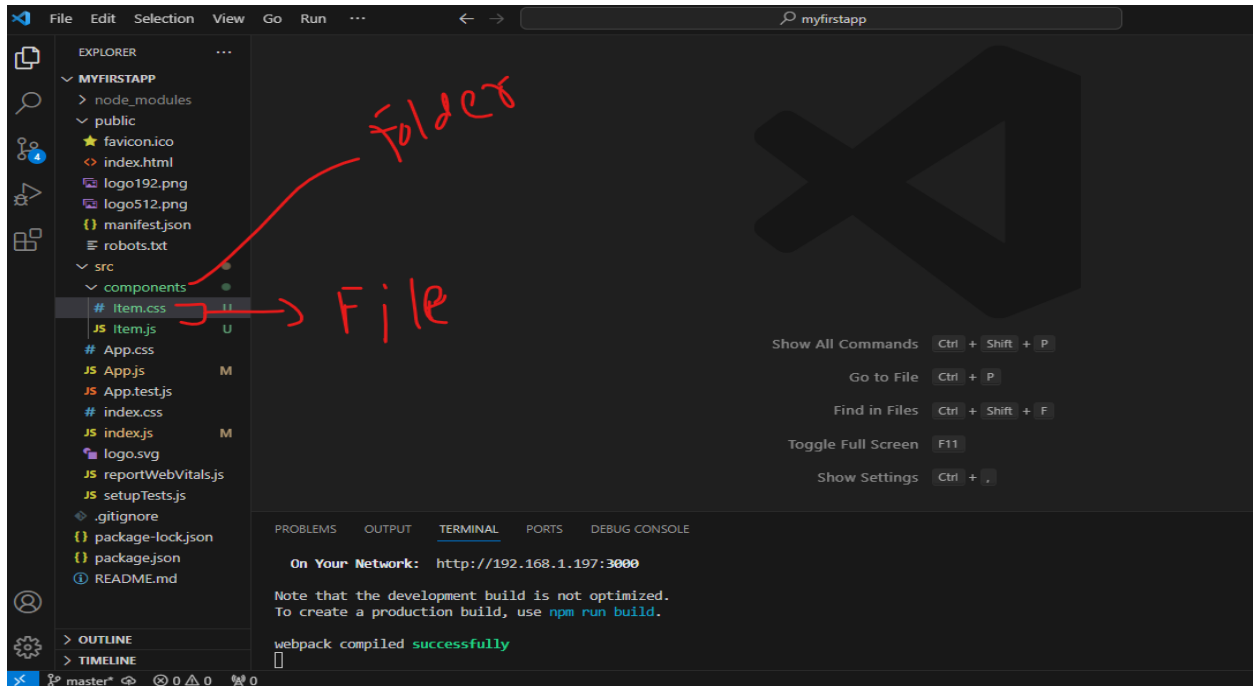
refer this site

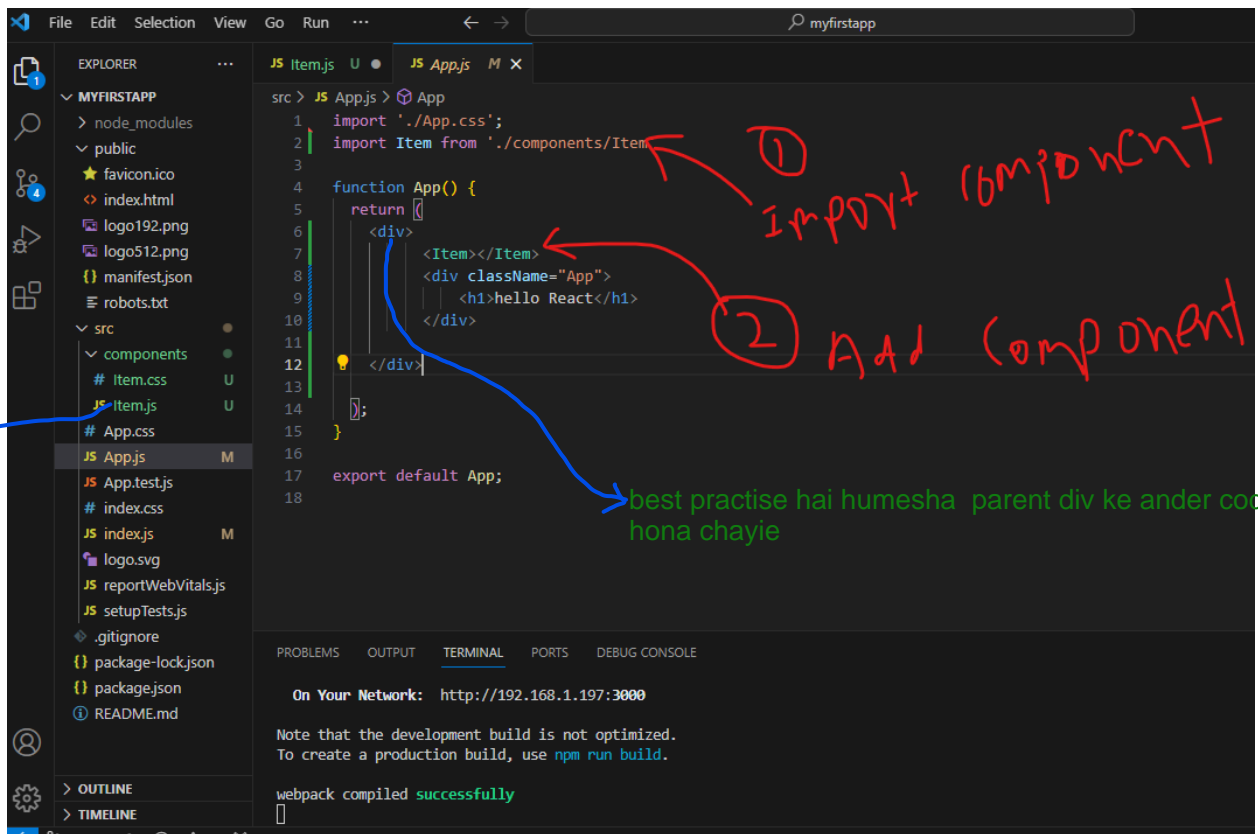
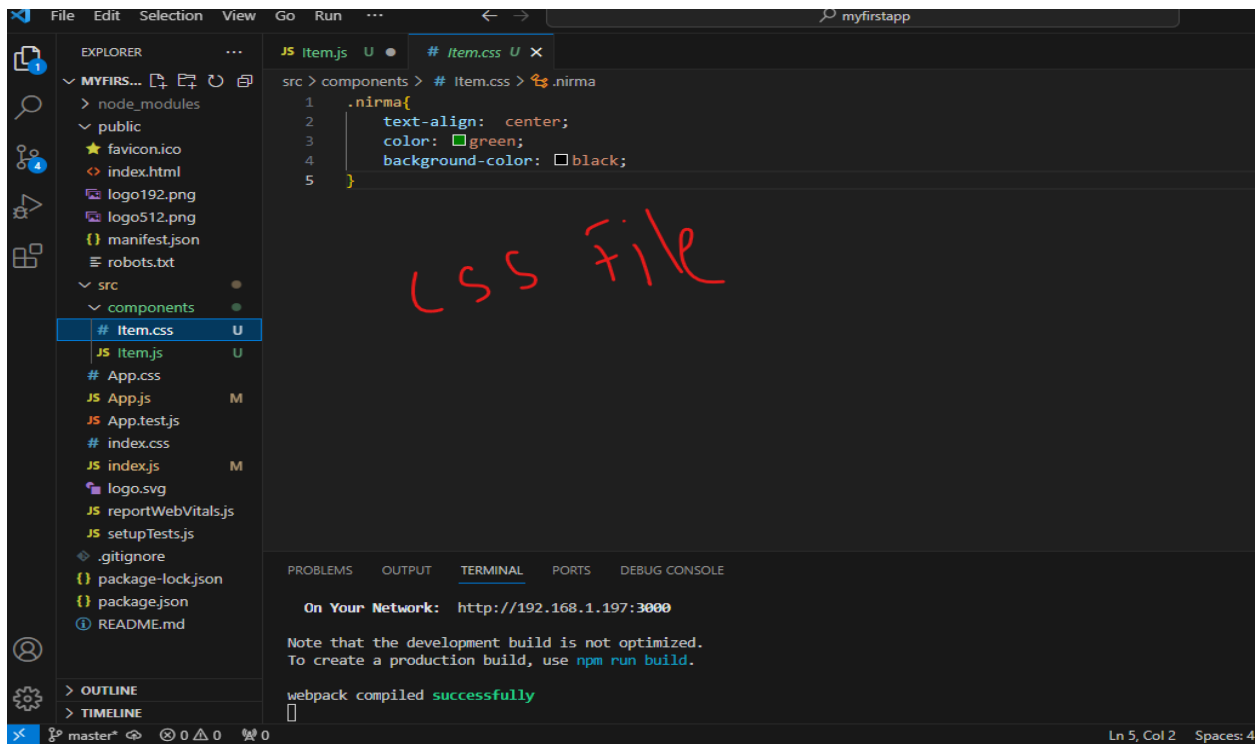
<https://tailwindcss.com/docs/guides/create-react-app>

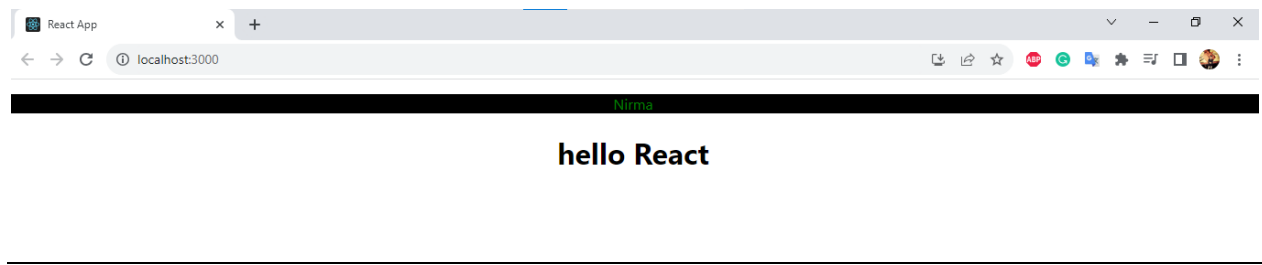
## React Basics Class -1

Step

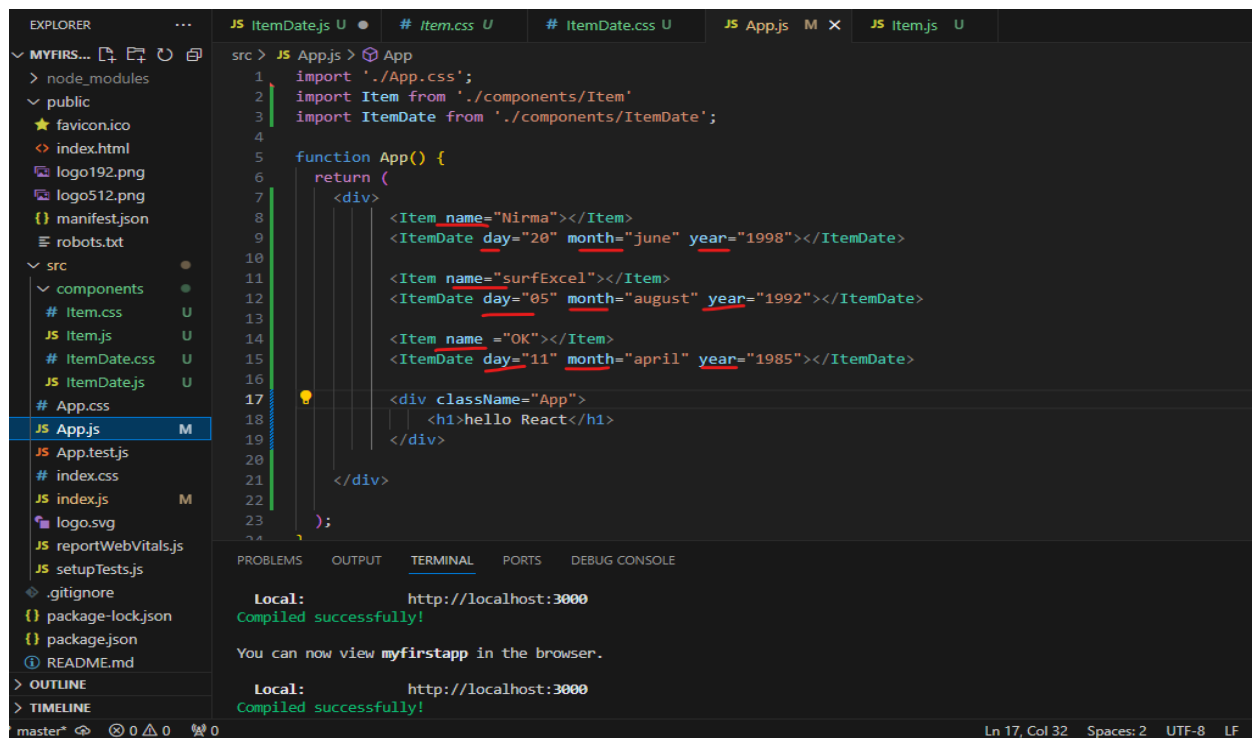
1) Create folder components in src folder and create two file js and css







## Using props

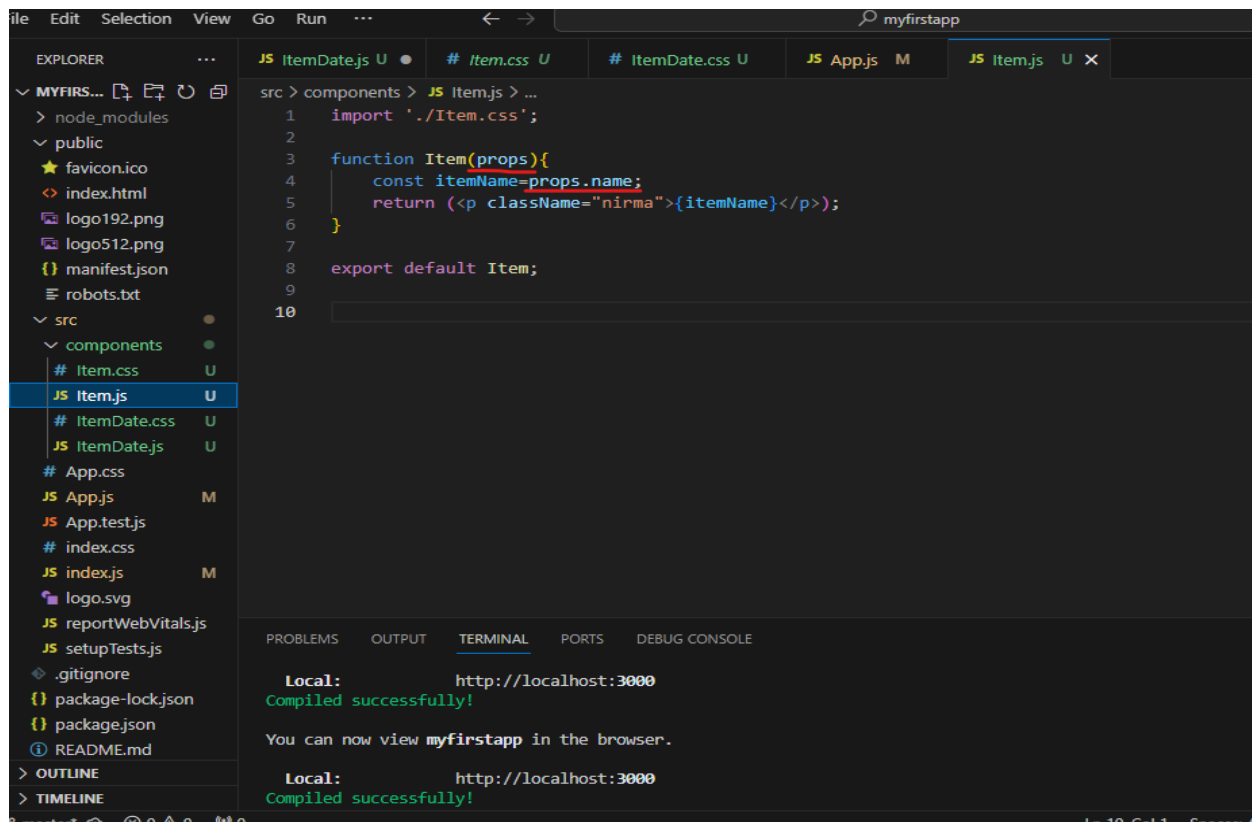


The screenshot shows the VS Code editor with the Explorer sidebar on the left displaying the project structure. The main editor area shows the `App.js` file. The code defines an `App` function that returns a `div` containing several `Item` and `ItemDate` components. The terminal at the bottom shows the command `npm start` and the output `Local: http://localhost:3000` and `Compiled successfully!`.

```
src > JS App.js > App
1  import './App.css';
2  import Item from './components/Item';
3  import ItemDate from './components/ItemDate';
4
5  function App() {
6    return (
7      <div>
8        <Item name="Nirma"></Item>
9        <ItemDate day="20" month="june" year="1998"></ItemDate>
10
11        <Item name="surfExcel"></Item>
12        <ItemDate day="05" month="august" year="1992"></ItemDate>
13
14        <Item name="OK"></Item>
15        <ItemDate day="11" month="april" year="1985"></ItemDate>
16
17      <div className="App">
18        <h1>hello React</h1>
19      </div>
20
21    </div>
22  );
23 }
```

Local: http://localhost:3000  
Compiled successfully!  
You can now view myfirstapp in the browser.

Local: http://localhost:3000  
Compiled successfully!



The screenshot shows the VS Code editor with the Explorer sidebar on the left displaying the project structure. The main editor area shows the `Item.js` file. The code defines an `Item` function that takes `props` as an argument and returns a `p` element with the `className` attribute set to `nirma` and the `itemName` attribute set to `props.name`. The terminal at the bottom shows the command `npm start` and the output `Local: http://localhost:3000` and `Compiled successfully!`.

```
src > components > JS Item.js > ...
1  import './Item.css';
2
3  function Item(props){
4    const itemName=props.name;
5    return (<p className="nirma">{itemName}</p>);
6  }
7
8  export default Item;
9
10
```

Local: http://localhost:3000  
Compiled successfully!  
You can now view myfirstapp in the browser.

Local: http://localhost:3000  
Compiled successfully!

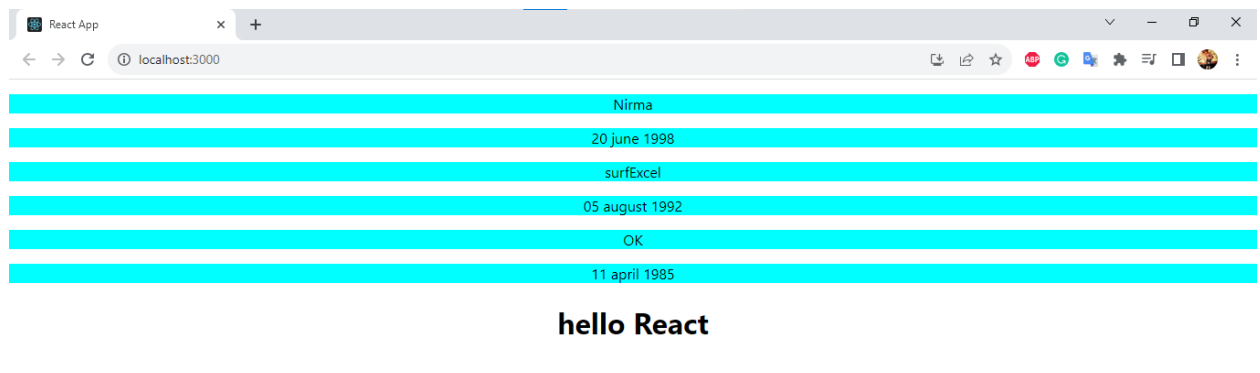
```
1 import './ItemDate.css';
2
3 function ItemDate(props){
4
5     const day=props.day;
6     const month=props.month;
7     const year=props.year;
8     return(
9         <div className='mfg-date'>
10
11             <span>{day}</span>
12             <span>{month}</span>
13             <span>{year}</span>
14
15         </div>
16     );
17 }
18
19 export default ItemDate;
```

Compiled successfully!

You can now view myfirstapp in the browser.

Local: http://localhost:3000

Compiled successfully!



File Edit Selection View Go Run ... myfirstapp

EXPLORER ...

MYFIRSTAPP

- node\_modules
- public
  - favicon.ico
  - index.html
  - logo192.png
  - logo512.png
  - manifest.json
  - robots.txt
- src
  - components
    - Item.css U
    - Item.js U
    - ItemDate.css U
    - ItemDate.js U
    - App.css
    - App.js M
    - App.test.js
    - index.css
    - index.js M
    - logo.svg
    - reportWebVitals.js
    - setupTests.js
  - .gitignore
  - package-lock.json
  - package.json
  - README.md
- OUTLINE
- TIMELINE

src > JS App.js > App

- 1 import './App.css';
- 2 import Item from './components/Item';
- 3 import ItemDate from './components/ItemDate';
- 4
- 5 function App() {
- 6   const itemNameTwo="surfExcel";
- 7   return (
- 8     <div>
- 9       <Item name="Nirma"></Item>
- 10       <ItemDate day="20" month="june" year="1998"></ItemDate>
- 11       <Item name={itemNameTwo}></Item>
- 12       <ItemDate day="05" month="august" year="1992"></ItemDate>
- 13       <Item name="OK"></Item>
- 14       <ItemDate day="11" month="april" year="1985"></ItemDate>
- 15       <div className="App">
- 16         <h1>hello React</h1>
- 17       </div>
- 18     </div>
- 19   )
- 20   }
- 21
- 22
- 23
- 24

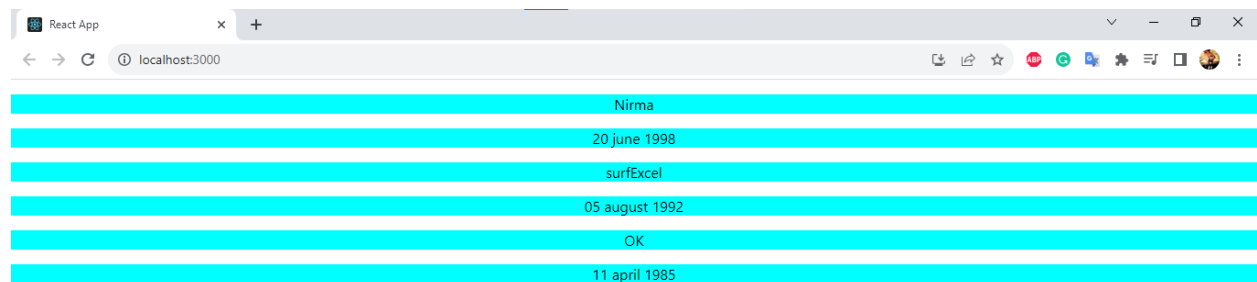
PROBLEMS OUTPUT TERMINAL PORTS DEBUG CONSOLE

On Your Network: http://192.168.1.197:3000

Note that the development build is not optimized.  
To create a production build, use `npm run build`.

webpack compiled successfully

Ln 12, Col 34 Spaces: 2 UTF-8 LF



App.js

```
import './App.css';
import Item from './components/Item'
import ItemDate from './components/ItemDate';

function App() {
  const response=[
    {
      itemName:"Nirma",
      ItemDate:"20",
      ItemMonth:"june",
      ItemYear:"1998"
    },
    {
      itemName:"SurfExcel",
      ItemDate:"05",
      ItemMonth:"August",
      ItemYear:"2005"
    },
    {
      itemName:"OK",
      ItemDate:"11",
      ItemMonth:"april",
      ItemYear:"1985"
    }
  ]
};
```



```
    return (  
      <div>  
        <Item name={response[0].itemName}></Item>  
        <ItemDate day={response[0].ItemDate} month={response[0].ItemMonth}  
year={response[0].ItemYear}></ItemDate>  
  
        <Item name={response[1].itemName}></Item>  
        <ItemDate day={response[1].ItemDate} month={response[1].ItemMonth}  
year={response[1].ItemYear}></ItemDate>  
  
        <Item name = {response[2].itemName}></Item>  
        <ItemDate day={response[2].ItemDate} month={response[2].ItemMonth}  
year={response[2].ItemYear}></ItemDate>  
  
        <div className="App">  
          <h1>hello React</h1>  
        </div>  
  
      </div>  
  
    );  
  }  
  
  export default App;
```

File Edit Selection View Go Run ... myfirstapp

EXPLORER

- MYFIRSTAPP
  - node\_modules
  - public
    - favicon.ico
    - index.html
    - logo192.png
    - logo512.png
    - manifest.json
    - robots.txt
  - src
    - components
      - Item.css
      - Item.js
      - ItemDate.css
      - ItemDate.js
      - App.css
      - App.js
      - App.test.js
      - index.css
      - index.js
      - logo.svg
      - reportWebVitals.js
      - setupTests.js
    - .gitignore
    - package-lock.json
    - package.json
    - README.md

src > JS App.js > App > response

```
1 import './App.css';
2 import Item from './components/Item'
3 import ItemDate from './components/ItemDate';
4
5 function App() {
6   const response=[
7     {
8       itemName:"Nirma",
9       ItemDate:"20",
10      ItemMonth:"june",
11      ItemYear:"1998"
12    },
13    {
14      itemName:"SunExcel",
15      ItemDate:"05",
16      ItemMonth:"August",
17      ItemYear:"2005"
18    },
19    {
20      itemName:"OK",
21      ItemDate:"11",
22      ItemMonth:"april",
23      ItemYear:"1985"
24    }
25  ];
26 }
```

PROBLEMS OUTPUT TERMINAL PORTS DEBUG CONSOLE

You can now view myfirstapp in the browser.

Local: http://localhost:3000

File Edit Selection View Go Run ... myfirstapp

EXPLORER

- MYFIRSTAPP
  - node\_modules
  - public
    - favicon.ico
    - index.html
    - logo192.png
    - logo512.png
    - manifest.json
    - robots.txt
  - src
    - components
      - Item.css
      - Item.js
      - ItemDate.css
      - ItemDate.js
      - App.css
      - App.js
      - App.test.js
      - index.css
      - index.js
      - logo.svg
      - reportWebVitals.js
      - setupTests.js
    - .gitignore
    - package-lock.json
    - package.json
    - README.md

src > JS App.js > App > response

```
27 return (
28   <div>
29     <Item name={response[0].itemName}></Item>
30     <ItemDate day={response[0].ItemDate} month={response[0].ItemMonth} year={response[0].ItemYear}></ItemDate>
31
32     <Item name={response[1].itemName}></Item>
33     <ItemDate day={response[1].ItemDate} month={response[1].ItemMonth} year={response[1].ItemYear}></ItemDate>
34
35     <Item name={response[2].itemName}></Item>
36     <ItemDate day={response[2].ItemDate} month={response[2].ItemMonth} year={response[2].ItemYear}></ItemDate>
37
38     <div className="App">
39       <h1>hello React</h1>
40     </div>
41
42   </div>
43 );
44
45 }
46
47 export default App;
48
```

PROBLEMS OUTPUT TERMINAL PORTS DEBUG CONSOLE

You can now view myfirstapp in the browser.

Local: http://localhost:3000

*Access item from Object Array*

React App

localhost:3000

Nirma
20 june 1998
SurfExcel
05 August 2005
OK
11 april 1985

hello React

---

```
src > JS App.js > App
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
export default App;
```

webpack compiled successfully

```
src > components > JS Item.js > ...
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
import './Item.css';

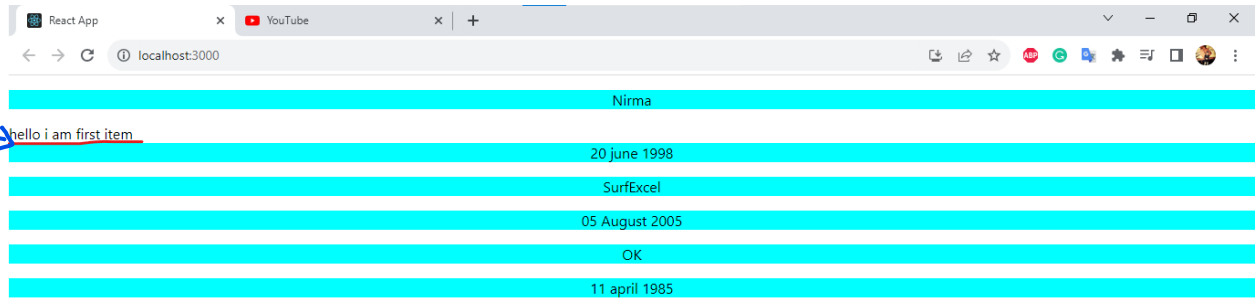
function Item(props){
  const itemName=props.name;

  return (<div>
    <p className="nirma">{itemName}</p>
    {props.children}
  </div>
  );
}

export default Item;
```

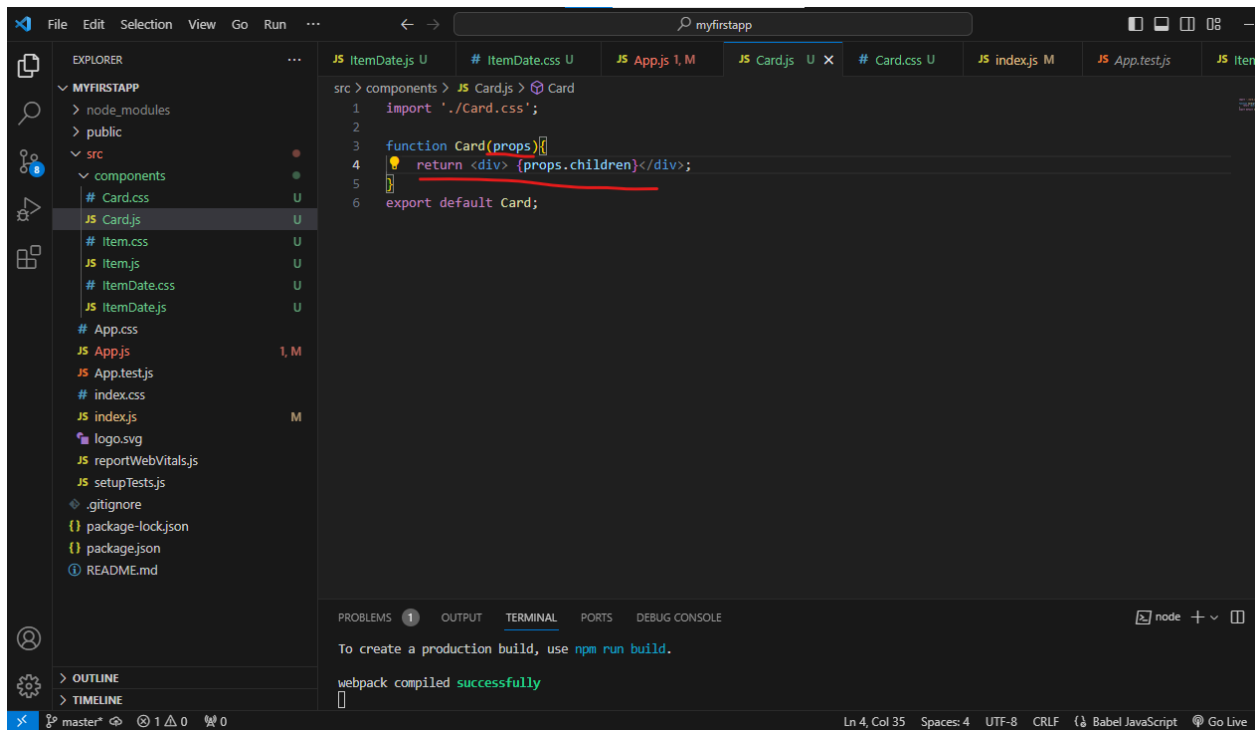
webpack compiled successfully

props children ka use kar ke hum print karwa sakte hai



**hello React**

## Using props



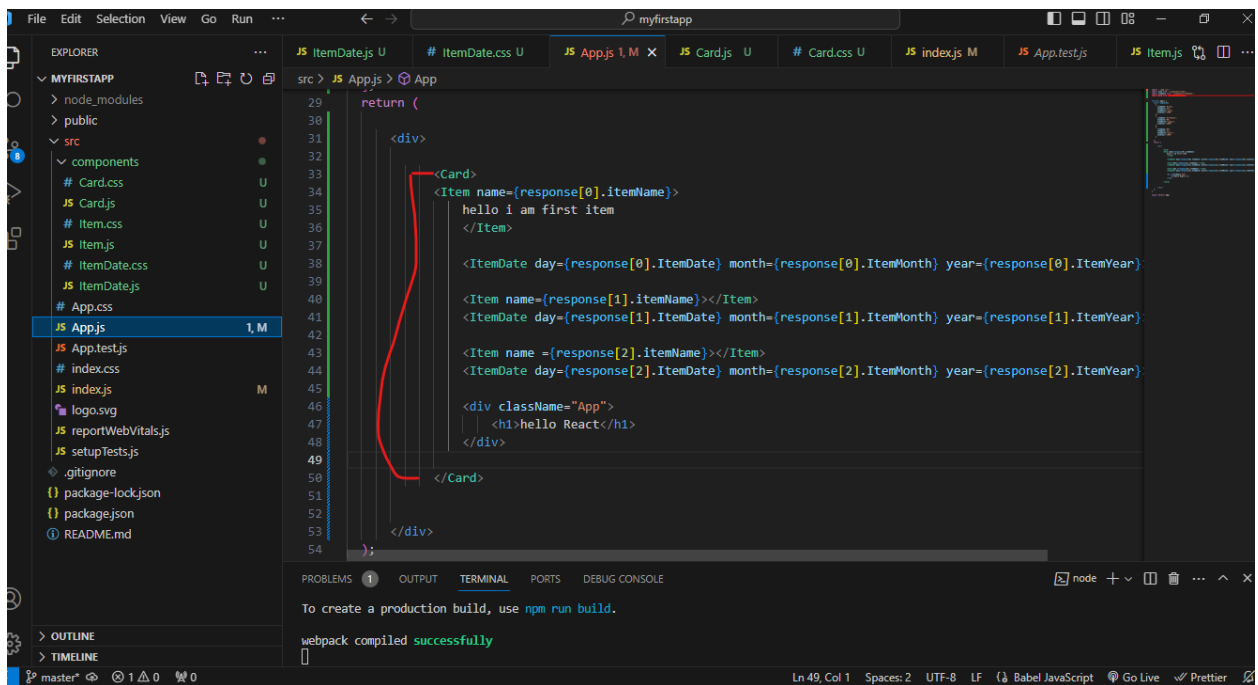
The screenshot shows the VS Code editor with the Explorer sidebar on the left displaying the project structure. The file `src/components/Card.js` is selected. The main editor shows the code for the `Card` component. The code defines a function `Card(props)` that returns a `<div>` element containing `props.children`. The file explorer shows the following structure:

- MYFIRSTAPP
  - node\_modules
  - public
  - src
    - components
      - Card.css
      - Card.js
      - Item.css
      - Item.js
      - ItemDate.css
      - ItemDate.js
      - App.css
      - App.js
      - App.test.js
      - index.css
      - index.js
      - logo.svg
      - reportWebVitals.js
      - setupTests.js
    - .gitignore
    - package-lock.json
    - package.json
    - README.md

The main editor shows the following code for `Card.js`:

```
1 import './Card.css';
2
3 function Card(props) {
4   return <div> {props.children}</div>;
5 }
6 export default Card;
```

The bottom panel shows the PROBLEMS, OUTPUT, and TERMINAL tabs. The TERMINAL tab displays the message: "To create a production build, use `npm run build`." and "webpack compiled successfully".



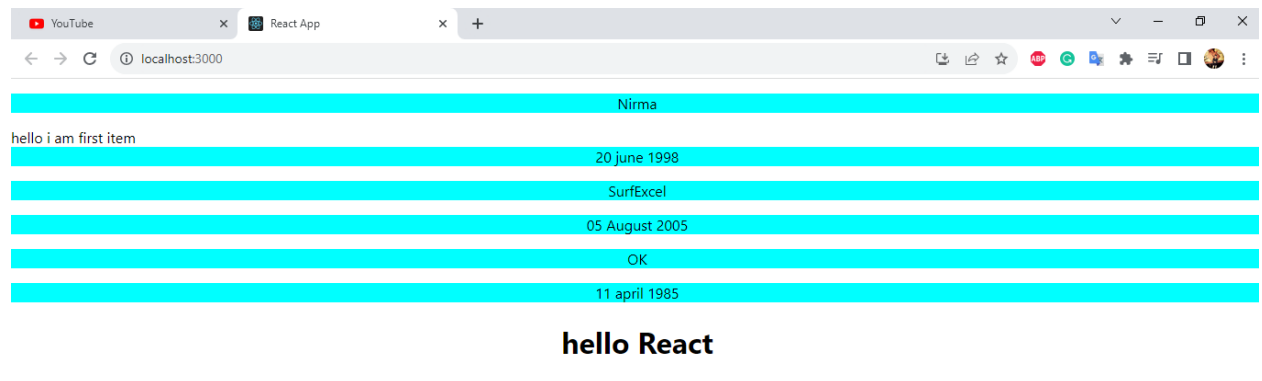
The screenshot shows the VS Code editor with the Explorer sidebar on the left displaying the project structure. The file `src/App.js` is selected. The main editor shows the code for the `App` component. The code defines a function `App` that returns a `<div>` element containing a `<Card>` component and a `<h1>` element. The `<Card>` component is used with props `name={response[0].itemName}` and `children` `hello i am first item`. The `<ItemDate>` component is used with props `day={response[0].ItemDate}`, `month={response[0].ItemMonth}`, and `year={response[0].ItemYear}`. The `<Item>` component is used with props `name={response[1].itemName}` and `children` `hello i am first item`. The `<ItemDate>` component is used with props `day={response[1].ItemDate}`, `month={response[1].ItemMonth}`, and `year={response[1].ItemYear}`. The `<Item>` component is used with props `name={response[2].itemName}` and `children` `hello i am first item`. The `<ItemDate>` component is used with props `day={response[2].ItemDate}`, `month={response[2].ItemMonth}`, and `year={response[2].ItemYear}`. The `<div>` element has a `className="App"` attribute. The file explorer shows the following structure:

- MYFIRSTAPP
  - node\_modules
  - public
  - src
    - components
      - Card.css
      - Card.js
      - Item.css
      - Item.js
      - ItemDate.css
      - ItemDate.js
      - App.css
      - App.js
      - App.test.js
      - index.css
      - index.js
      - logo.svg
      - reportWebVitals.js
      - setupTests.js
    - .gitignore
    - package-lock.json
    - package.json
    - README.md

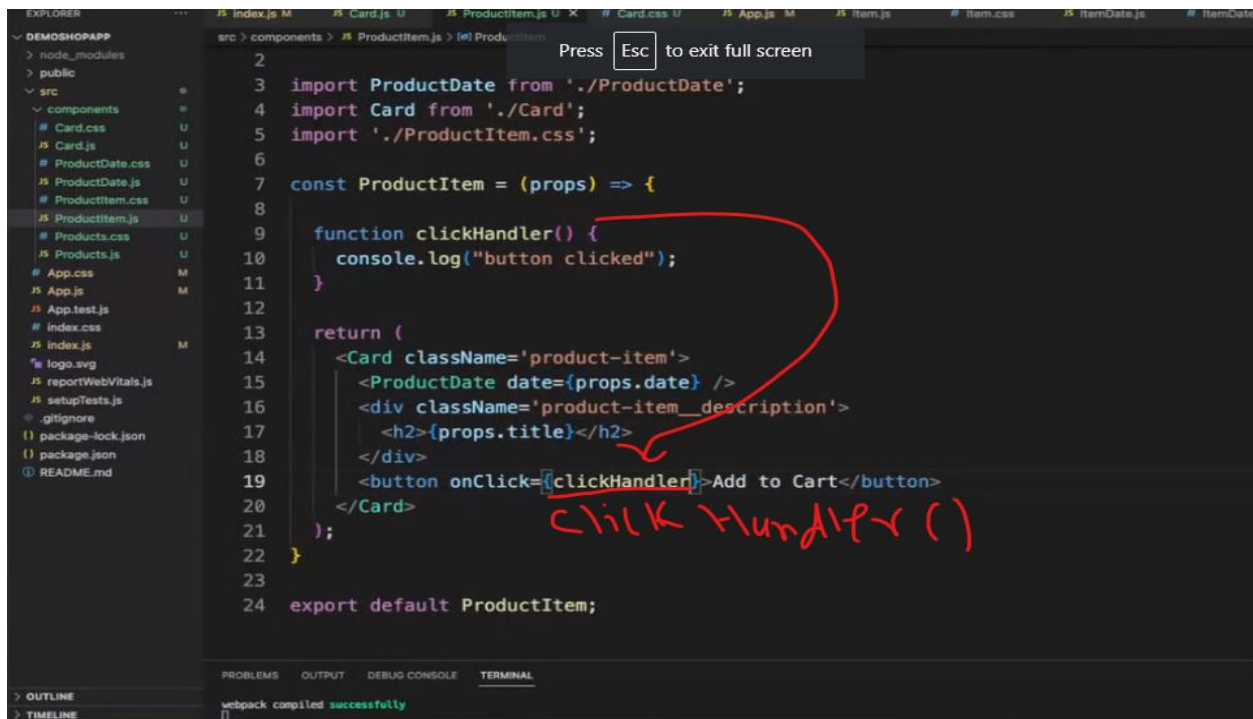
The main editor shows the following code for `App.js`:

```
29 return (
30   <div>
31     <Card
32       name={response[0].itemName}
33       children="hello i am first item"
34     />
35
36     <ItemDate day={response[0].ItemDate} month={response[0].ItemMonth} year={response[0].ItemYear} />
37
38     <Item name={response[1].itemName}></Item>
39     <ItemDate day={response[1].ItemDate} month={response[1].ItemMonth} year={response[1].ItemYear} />
40
41     <Item name={response[2].itemName}></Item>
42     <ItemDate day={response[2].ItemDate} month={response[2].ItemMonth} year={response[2].ItemYear} />
43
44     <div className="App">
45       <h1>hello React</h1>
46     </div>
47   </div>
48 );
```

The bottom panel shows the PROBLEMS, OUTPUT, and TERMINAL tabs. The TERMINAL tab displays the message: "To create a production build, use `npm run build`." and "webpack compiled successfully".



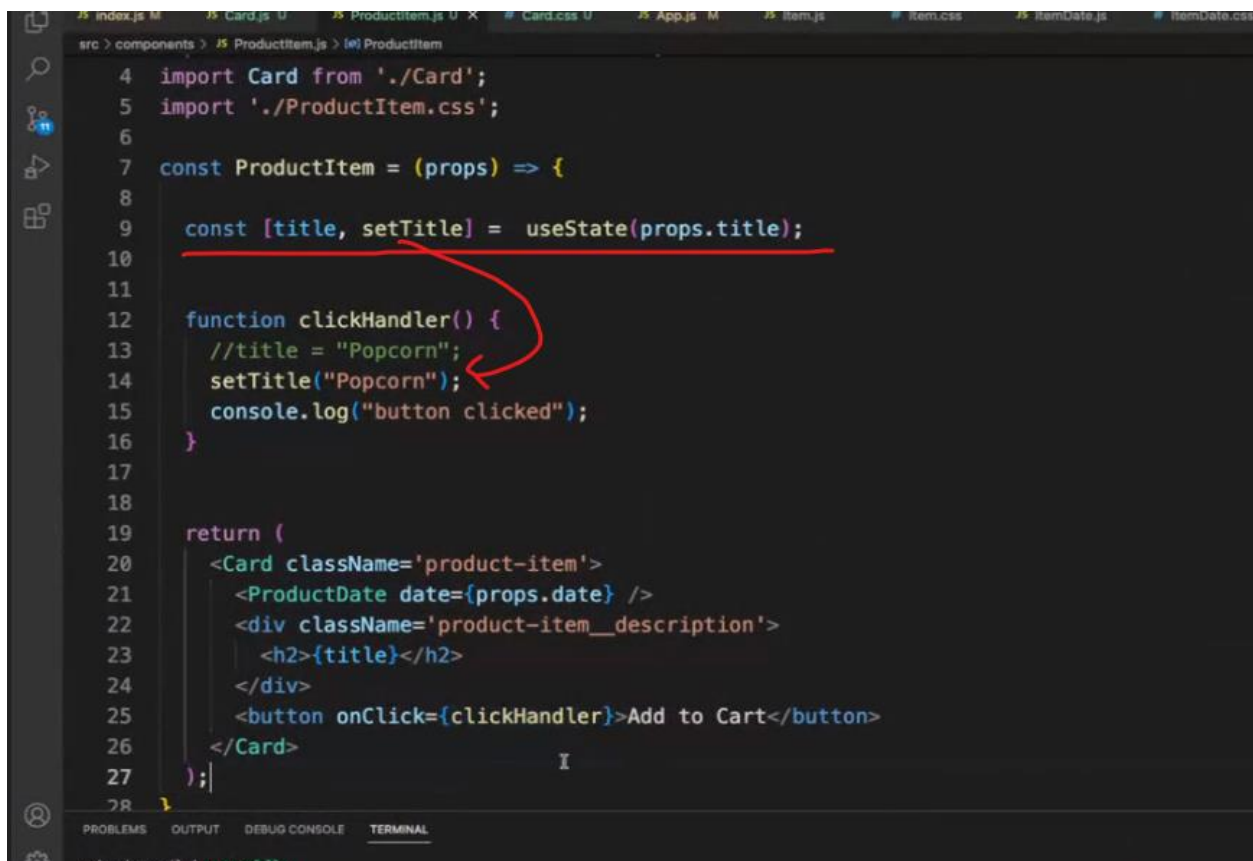
## React Basics Class -2



```
2
3 import ProductDate from './ProductDate';
4 import Card from './Card';
5 import './ProductItem.css';
6
7 const ProductItem = (props) => {
8
9   function clickHandler() {
10     console.log("button clicked");
11   }
12
13   return (
14     <Card className='product-item'>
15       <ProductDate date={props.date} />
16       <div className='product-item__description'>
17         <h2>{props.title}</h2>
18       </div>
19       <button onClick={clickHandler}>Add to Cart</button>
20     </Card>
21   );
22 }
23
24 export default ProductItem;
```

clickHandler()

## UseState



```
4 import Card from './Card';
5 import './ProductItem.css';
6
7 const ProductItem = (props) => {
8
9   const [title, setTitle] = useState(props.title);
10
11   function clickHandler() {
12     //title = "Popcorn";
13     setTitle("Popcorn");
14     console.log("button clicked");
15   }
16
17   return (
18     <Card className='product-item'>
19       <ProductDate date={props.date} />
20       <div className='product-item__description'>
21         <h2>{title}</h2>
22       </div>
23       <button onClick={clickHandler}>Add to Cart</button>
24     </Card>
25   );
26 }
27
28 export default ProductItem;
```

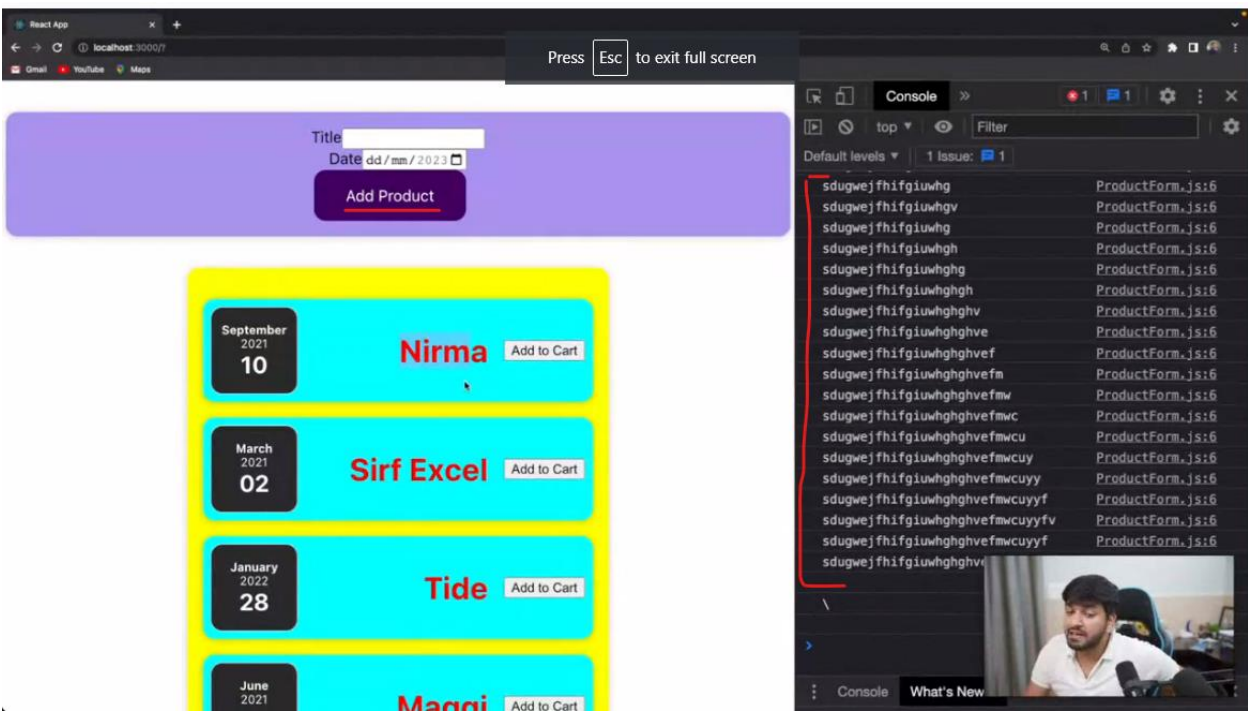


## Handler

```

1  import { useState } from 'react';
2
3  function ProductForm() {
4
5      function titleChangeHandler(event) {
6          console.log(event.target.value);
7      }
8
9      return (
10         <div className='new-product_controls'>
11             <div className='new-product_control'>
12                 <label>Title</label>
13                 <input type='text' onChange={titleChangeHandler}></input>
14             </div>
15             <div className='new-product_control'>
16                 <label>Date</label>
17                 <input type='date' min='2023-01-01' max='2023-12-12'></input>
18             </div>
19             <div className='new-product_button'>
20                 <button type='submit'>Add Product</button>
21             </div>
22         </div>
23     );
24 }
25
26 export default ProductForm;

```



myfirstapp

```
1 import { useState } from 'react';
2 import './ProductForm.css';
3
4 function ProductForm(){
5
6     const [title, setTitle]=useState('');
7     const [date, setDate]=useState('');
8
9     function titleChangeHandler(event){
10         setTitle(event.target.value);
11         console.log(title);
12     }
13
14     function dateChangeHandler(event){
15         setDate(event.target.value);
16         console.log(date);
17     }
18
19     return(
20         <div className='produc-form-css'>
21             <div>
22                 <label>Title</label>
23                 <input type='text' className='product-form-input' onChange={titleChangeHandler}></input>
24             </div>
25
26             <div>
27                 <label>Date</label>
28                 <input type='date' min='2023-01-01' max='2023-12-12' className='product-form-date' onChange={dateChangeHandler}></input>
29             </div>
30
31             <div>
32                 <button type='submit' className='btn' >AddProduct</button>
33             </div>
34         </div>
35     );
36 }
37
38 export default ProductForm;
```

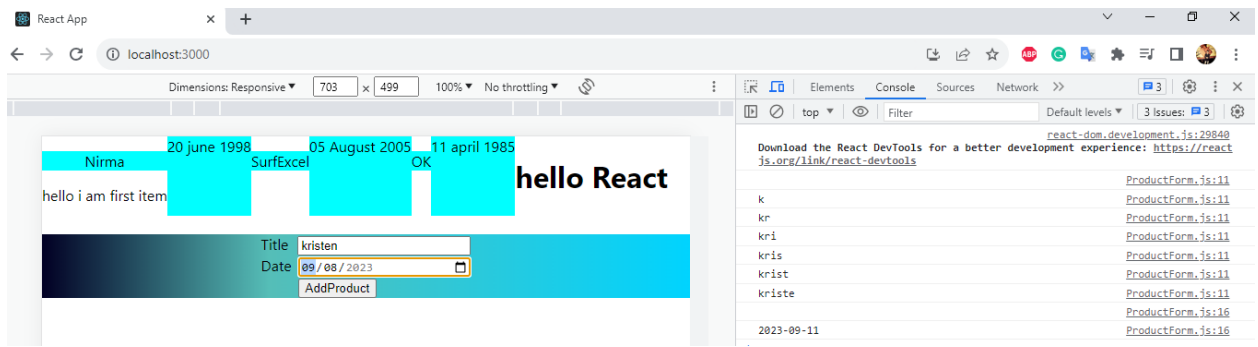
→ make state

← handler

PROBLEMS OUTPUT TERMINAL PORTS DEBUG CONSOLE

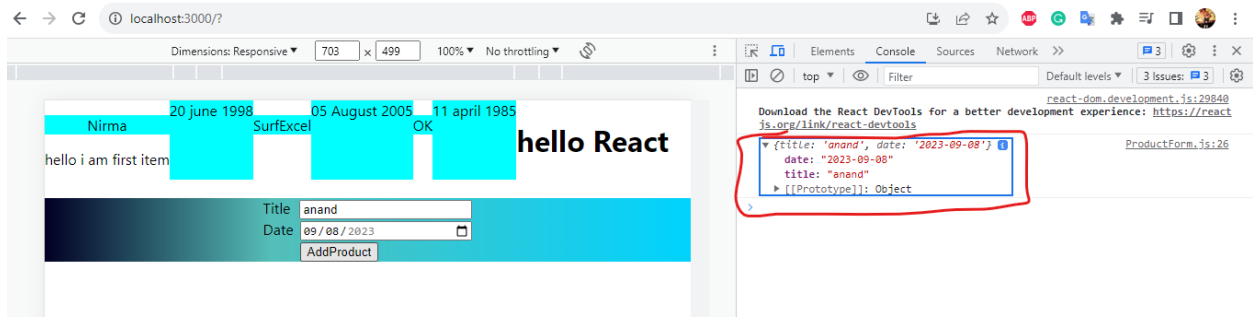
You can now view myfirstapp in the browser.

Local: http://localhost:3000  
On Your Network: http://192.168.1.197:3000



```
14      setDate(event.target.value);
15    }
16
17    function submitHandler(event) {
18      event.preventDefault();
19
20      const productData = {
21        title: newTitle,
22        date: newDate
23      };
24
25      console.log(productData)
26
27
28
29      return (<form onSubmit={submitHandler}>
30        <div className='new-product_controls'>
31          <div className='new-product_control'>
32            <label>Title</label>
33            <input type='text' onChange={titleChangeHandler}></input>
34          </div>
35          <div className='new-product_control'>
36            <label>Date</label>
37            <input type='date' onChange={dateChangeHandler} min='2023-01-01' max='2023-12-12'></div>
38          </div>
39          <div className='new-product_button'>
40            <button type='submit'>Add Product</button>

```

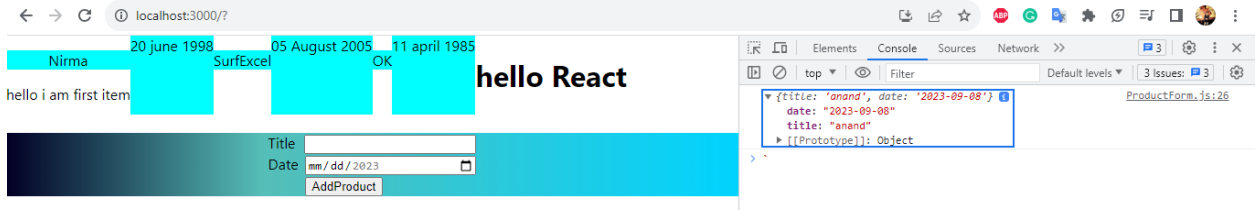


VS Code editor showing the file explorer on the left with a project named 'MYFIRSTAPP'. The file explorer lists various files including 'node\_modules', 'public', 'src', 'components', 'Card.css', 'Card.js', 'Item.css', 'Item.js', 'ItemDate.css', 'ItemDate.js', 'Product.css', 'Product.js', 'ProductForm.css', 'ProductForm.js', 'App.css', 'App.js', 'App.test.js', 'index.css', 'index.js', 'logo.svg', 'reportWebVitals.js', 'setupTests.js', '.gitignore', 'package-lock.json', 'package.json', 'README.md', 'OUTLINE', and 'TIMELINE'.

The main editor displays the 'ProductForm.js' file. The code includes a function 'productSubmit' and a 'return' statement that renders a form. The form contains a title input field and a date input field. The title input field has a value of 'newTitle' and an 'onChange' handler. The date input field has a value of 'newDate' and a 'min' attribute. The form is submitted by a button labeled 'AddProduct'.

Handwritten red notes are present in the editor, including 'empty' and 'on 25/09/23'.

The terminal at the bottom shows the message 'webpack compiled successfully'.



## Pass data child to parent

```
27   title: 'Maggi',
28   amount: 450,
29   date: new Date(2021, 5, 5),
30 },
31 ];
32
33 function printProductData(data) {
34   console.log("i am inside APP.js")
35   console.log(data)
36 }
37
38 return (
39   <div>
40     <NewProduct pranay = {printProductData} />
41     <Products items={products} />
42   </div>
43 );
44
45 export default App;
```

```
1 import './NewProduct.css';
2 import ProductForm from './ProductForm';
3
4 function NewProduct(props) {
5
6   function saveProduct(product) {
7     console.log("i am inside new product");
8     console.log(product)
9
10    //calling parent function
11    props.pranay(product);
12  }
13
14  return (
15    <div className='new-product'>
16      <ProductForm onSaveProduct = {saveProduct}/>
17    </div>
18  );
19 export default NewProduct;
```

parent

function(obj) { }

child

functionCall(obj)

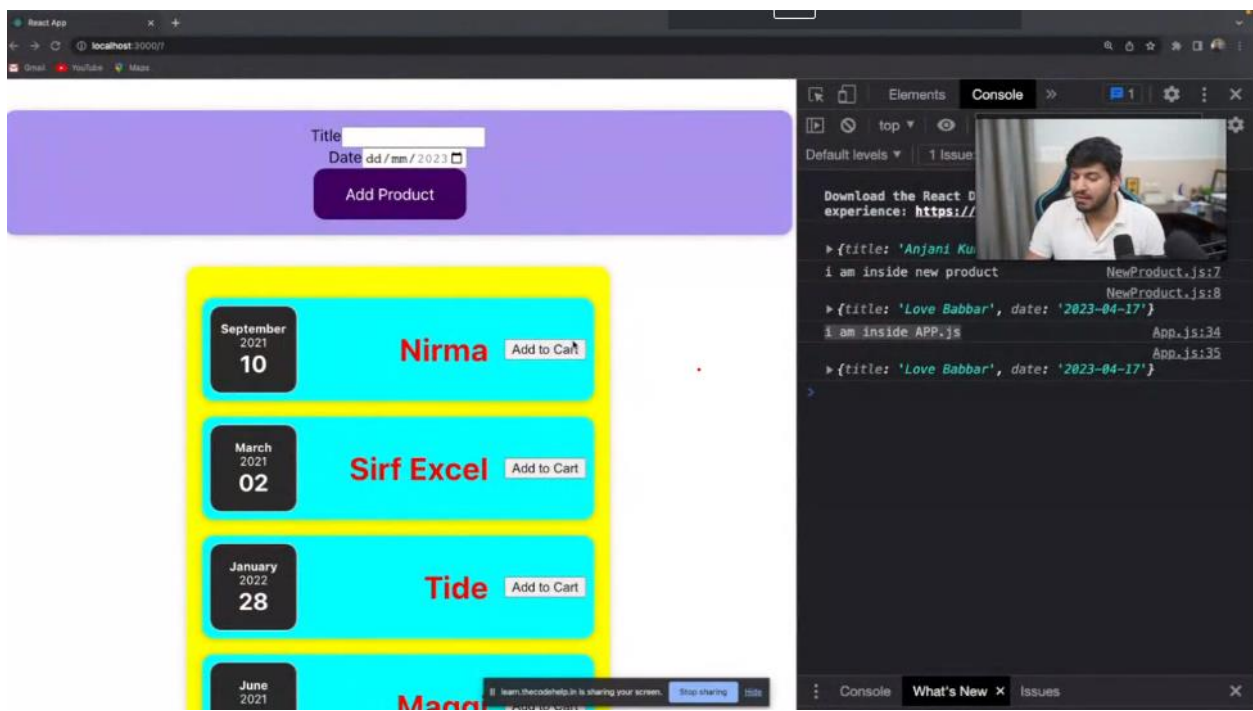
function pass

child to parent :- parent function ko pass karega child ,child function call karega input parameter ke saath parent ko object access ho jayega



```
EXPLORER
  DEMOSHOPAPP
    > node_modules
    > public
    > src
      > components
        # Card.css
        # Card.js
        # NewProduct.css
        # NewProduct.js
        # ProductDate.css
        # ProductDate.js
        # ProductForm.css
        # ProductForm.js
        # ProductItem.css
        # ProductItem.js
        # Products.css
        # Products.js
        # App.css
        # App.js
        # App.test.js
        # index.css
        # index.js
        # logo.svg
        # reportWebVitals.js
        # setupTests.js
        .gitignore
        package-lock.json
        package.json
        README.md

src > components > ProductForm.js
12
13 function dateChangeHandler(event) {
14   setDate(event.target.value);
15 }
16
17
18 function submitHandler(event) {
19   event.preventDefault();
20
21   const productData = {
22     title: newTitle,
23     date: newDate
24   };
25
26   //console.log(productData);
27   props.onSaveProduct(productData);
28
29   setTitle('');
30   setDate('');
31 }
32
33 return (
34   <div className='new-product_controls'>
35     <div className='new-product_control'>
36       <label>Title</label>
37       <input type='text' value={newTitle} onChange={titleChangeHandler}></input>
38     </div>
39     <div className='new-product_control'>
```



## React Basics Class -3

Plan with love babar project - E:\React1

## React Basics Class -4

The image shows a development environment with VS Code and a web browser. In VS Code, the file explorer on the left shows a project named '4.REACT BASICS -CLASS 4' with a 'dummyapp' subdirectory containing 'src'. The 'App.js' file is open in the editor, showing the following code:

```
1 import './App.css';
2 import {useState} from 'react';
3
4 function App() {
5
6   const [text,setText]=useState('');
7   function changeHandler(event){
8     setText(event.target.value);
9     console.log(text);
10  }
11  return (
12    <div className="App">
13      <input type="text" onChange={changeHandler}></input>
14    </div>
15  );
16 }
17
18 export default App;
19
```

The terminal at the bottom of VS Code shows the following output:

```
On Your Network: http://192.168.1.197:3000

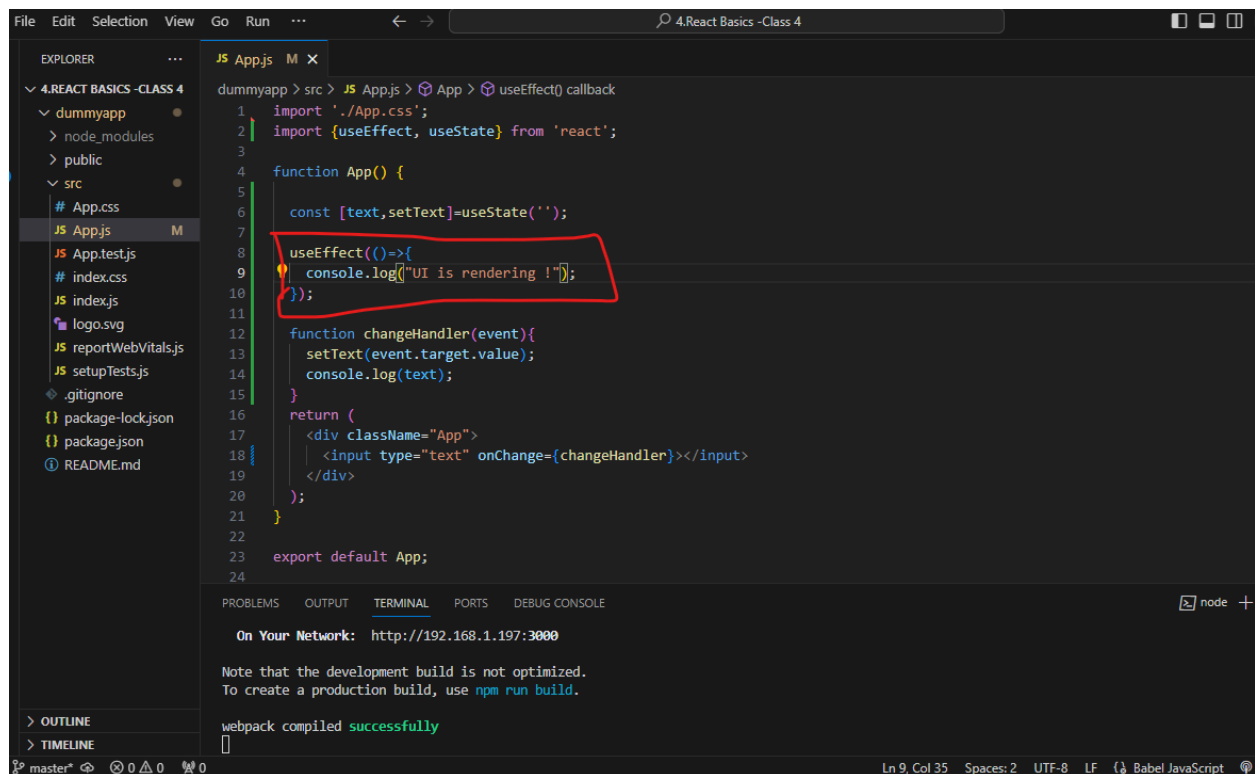
Note that the development build is not optimized.
To create a production build, use npm run build.

webpack compiled successfully
```

The web browser at the bottom shows the application running on localhost:3000. The input field contains the text 'anandkumar'. The React DevTools console is open, showing a message to download the React DevTools for a better development experience, and a list of log messages from the application:

Message	Source
Download the React DevTools for a better development experience: <a href="https://reactjs.org/link/react-devtools">https://reactjs.org/link/react-devtools</a>	index.js:4
a	App.js:9
an	App.js:9
ana	App.js:9
anan	App.js:9
anand	App.js:9
anandk	App.js:9
anandku	App.js:9
anandkum	App.js:9
anandkuma	App.js:9

## useEffect

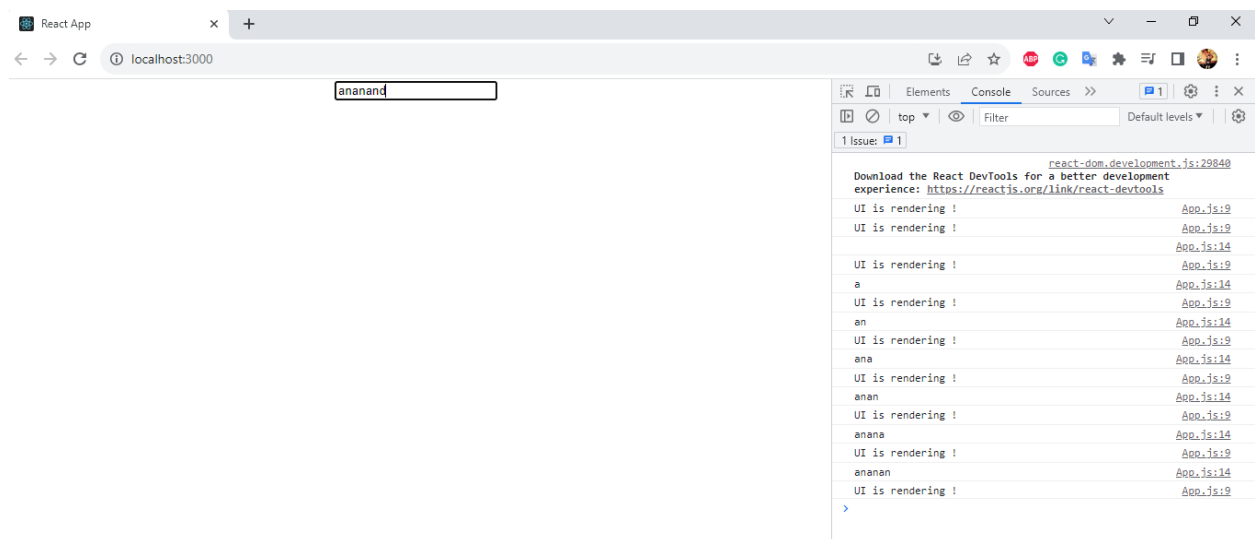


The screenshot shows a VS Code editor with a file explorer on the left and a code editor in the center. The file explorer shows a project structure for '4.REACT BASICS -CLASS 4' with files like 'App.css', 'App.js', 'App.test.js', 'index.css', 'index.js', 'logo.svg', 'reportWebVitals.js', 'setupTests.js', '.gitignore', 'package-lock.json', 'package.json', and 'README.md'. The code editor shows the following code:

```
dummyapp > src > JS App.js > App > useEffect() callback
1 import './App.css';
2 import {useEffect, useState} from 'react';
3
4 function App() {
5
6   const [text,setText]=useState('');
7
8   useEffect(()=>{
9     console.log("UI is rendering !");
10  });
11
12   function changeHandler(event){
13     setText(event.target.value);
14     console.log(text);
15   }
16
17   return (
18     <div className="App">
19       | <input type="text" onChange={changeHandler}></input>
20     </div>
21   );
22 }
23
24 export default App;
```

The code is running, and the terminal shows the following output:

```
On Your Network: http://192.168.1.197:3000
Note that the development build is not optimized.
To create a production build, use npm run build.
webpack compiled successfully
```



The screenshot shows a web browser with the URL 'localhost:3000'. The browser displays a text input field with the value 'ananand'. The browser's developer tools are open, showing the console with the following log messages:

```
react-dom.development.js:29840
Download the React DevTools for a better development
experience: https://reactjs.org/link/react-devtools
UI is rendering ! App.js:9
UI is rendering ! App.js:9
App.js:14
UI is rendering ! App.js:9
a App.js:14
UI is rendering ! App.js:9
an App.js:14
UI is rendering ! App.js:9
ana App.js:14
UI is rendering ! App.js:9
anan App.js:14
UI is rendering ! App.js:9
anana App.js:14
UI is rendering ! App.js:9
ananan App.js:14
UI is rendering ! App.js:9
```

Jab bhi ui render hoga tabhi useEffect ka code chalega kyuki onchange pe UI render ho raha hai isliye useEffect ka code every time run ho raha hai



4.React Basics -Class 4

EXPLORER

- 4.REACT...
- dummyapp
  - node\_modules
  - public
  - src
    - App.css
    - JS App.js M
    - App.test.js
    - index.css
    - index.js M
    - logo.svg
    - reportWebVitals.js
    - setupTests.js
    - .gitignore
    - package-lock.json
    - package.json
    - README.md

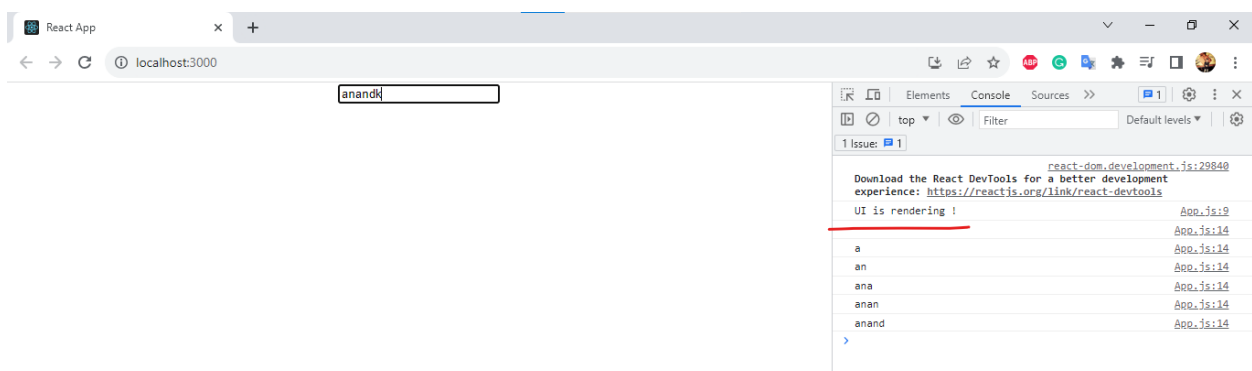
JS App.js M

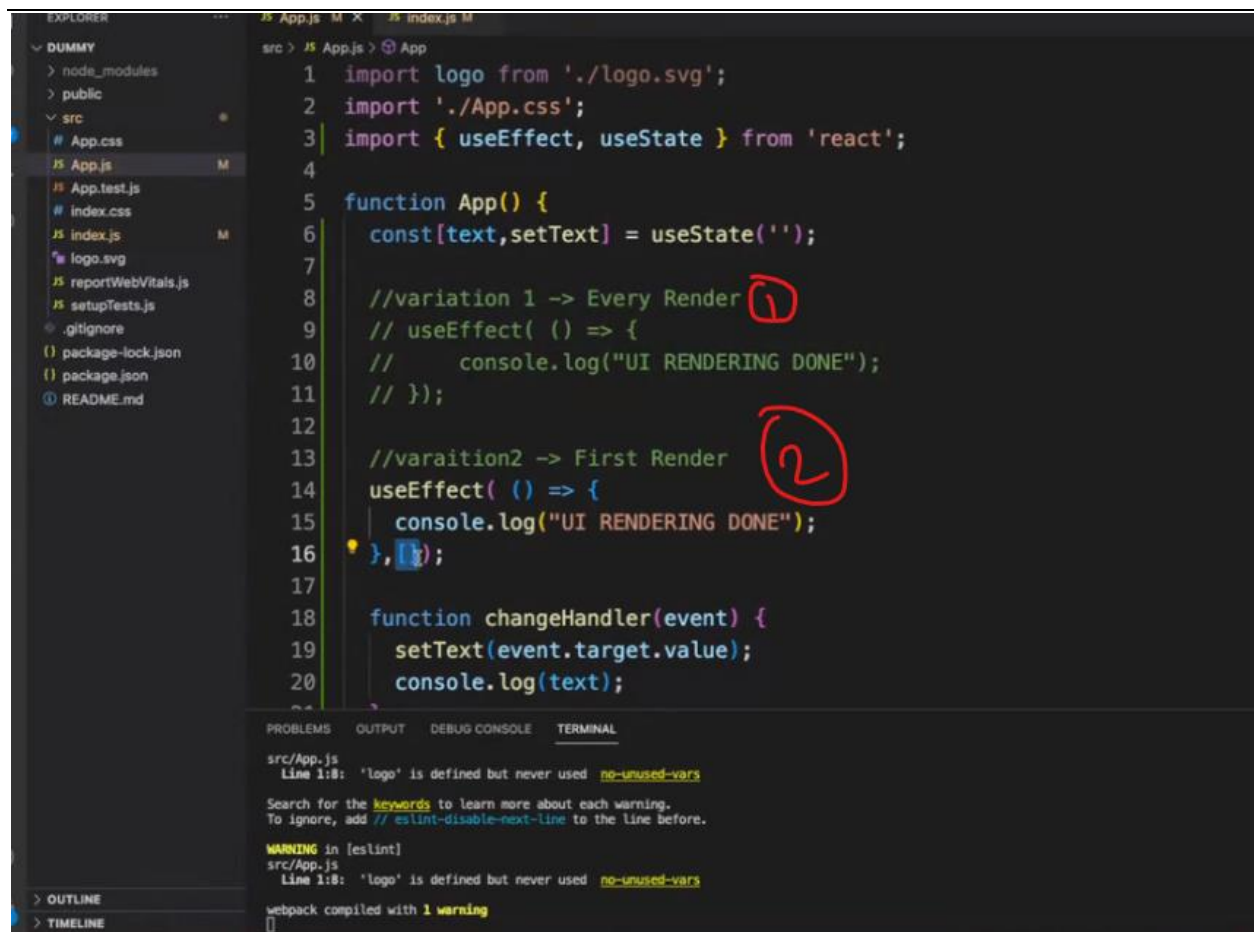
```
dummyapp > src > JS App.js > App
1 import './App.css';
2 import {useEffect, useState} from 'react';
3
4 function App() {
5
6   const [text,setText]=useState('');
7
8   useEffect(()=>{
9     console.log("UI is rendering !");
10  },[]);
11
12  function changeHandler(event){
13    setText(event.target.value);
14    console.log(text);
15  }
16  return (
17    <div className="App">
18      <input type="text" onChange={changeHandler}></input>
19    </div>
20  );
21 }
22
23 export default App;
24
```

PROBLEMS OUTPUT TERMINAL PORTS DEBUG CONSOLE

webpack compiled successfully

only one  
time rendered  
EJS





File Edit Selection View Go Run ... 4.React Basics -Class 4

EXPLORER ... JS App.js M JS index.js M

4.REACT BASICS -CLASS 4  
dummyapp  
node\_modules  
public  
src  
App.css  
App.js M  
App.test.js  
index.css  
index.js M  
logo.svg  
reportWebVitals.js  
setupTests.js  
.gitignore  
package-lock.json  
package.json  
README.md

dummyapp > src > JS App.js > App  
1 import './App.css';  
2 import {useEffect, useState} from 'react';  
3  
4 function App() {  
5  
6 const [text,setText]=useState('');  
7  
8 useEffect(()=>{  
9 console.log("change observed");  
10 },[text]);  
11  
12 function changeHandler(event){  
13 setText(event.target.value);  
14 console.log(text);  
15 }  
16 return (  
17 <div className="App">  
18 <input type="text" onChange={changeHandler}></input>  
19 </div>  
20 );  
21 }  
22  
23 export default App;  
24

PROBLEMS OUTPUT TERMINAL PORTS DEBUG CONSOLE

Note that the development build is not optimized.  
To create a production build, use npm run build.  
  
webpack compiled successfully

Ln 10, Col 10 Spaces: 2

Text A value change  
eg. anand

React App x +

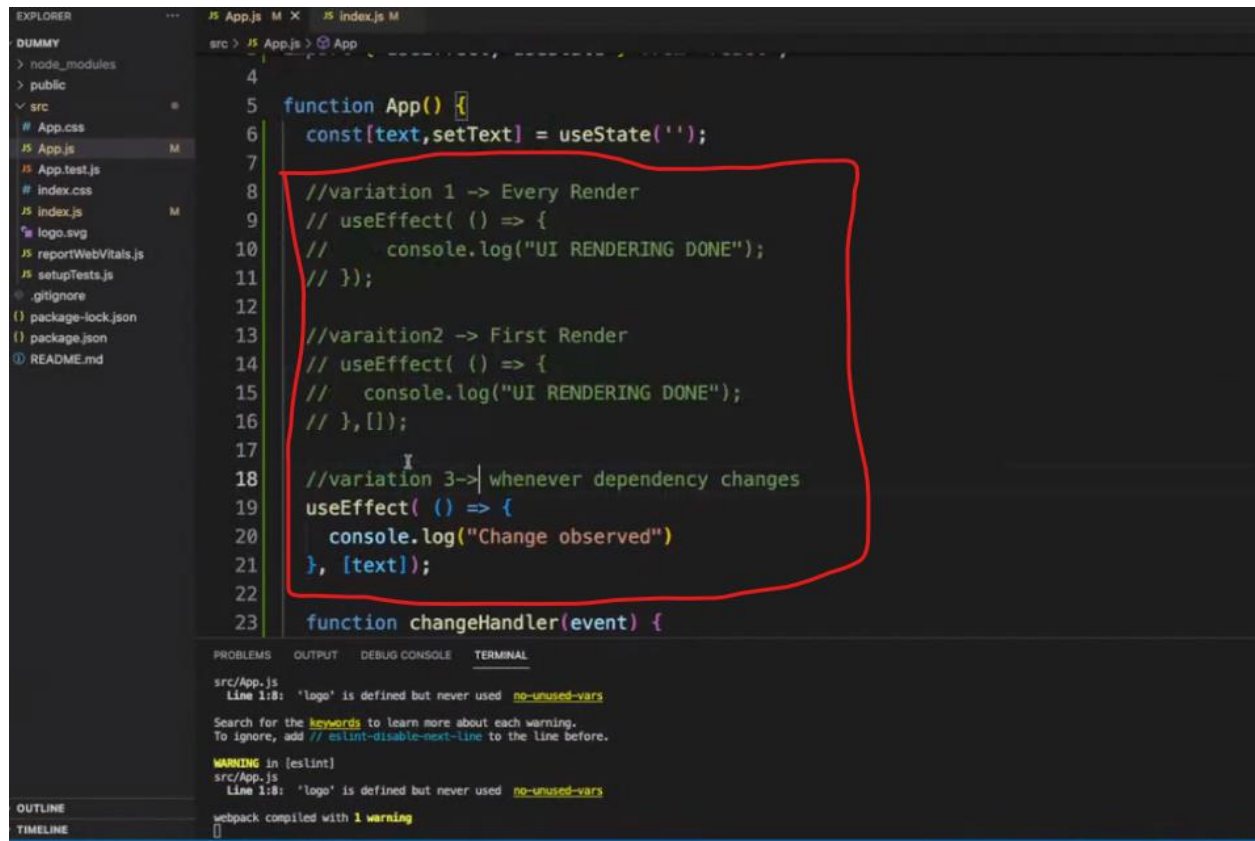
localhost:3000

anandk

Elements Console Sources >> 1 Issue: 1

react-dom.development.js:29840  
Download the React DevTools for a better development experience: <https://reactjs.org/link/react-devtools>

change observed	App.js:19
change observed	App.js:14
change observed	App.js:19
a	App.js:14
change observed	App.js:19
an	App.js:14
change observed	App.js:19
ana	App.js:14
change observed	App.js:19
anan	App.js:14
change observed	App.js:19
anand	App.js:14
change observed	App.js:19



```
4.REACT BASICS -CLASS 4
dummyapp > src > JS Appjs > App > changeHandler
1 import './App.css';
2 import {useEffect, useState} from 'react';
3
4 function App() {
5
6   const [text,setText]=useState('');
7
8   const [name,setName]=useState('Love');
9   useEffect(()=>{
10     console.log("change observed");
11   },[name]);
12
13   function changeHandler(event){
14     setText(event.target.value);
15     console.log(text);
16   }
17
18   return (
19     <div className="App">
20       <input type="text" onChange={changeHandler}></input>
21     </div>
22   );
23
24   export default App;
25
```

Get Name change effect  
नाम बदल रहा है

React App

localhost:3000

Elements

Console

Sources

1 issue: 1

react-dom.development.js:29840  
Download the React DevTools for a better development  
experience: <https://reactjs.org/link/react-devtools>

change observed App.js:10

a App.js:15

an App.js:15

ana App.js:15

anan App.js:15

anana App.js:15

ananan App.js:15

ananand App.js:15

ananan App.js:15

anana App.js:15

anan App.js:15

ana App.js:15

an App.js:15

a App.js:15

>

File Edit Selection View Go Run ... 4.React Basics -Class 4

EXPLORER

- 4.REACT BASICS -CLASS 4
  - dummyapp
    - node\_modules
    - public
    - src
      - App.css
      - App.js
      - App.test.js
      - index.css
      - index.js
      - logo.svg
      - reportWebVitals.js
      - setupTests.js
      - .gitignore
      - package-lock.json
      - package.json
      - README.md

dummyapp > src > JS App.js > App > useEffect() callback

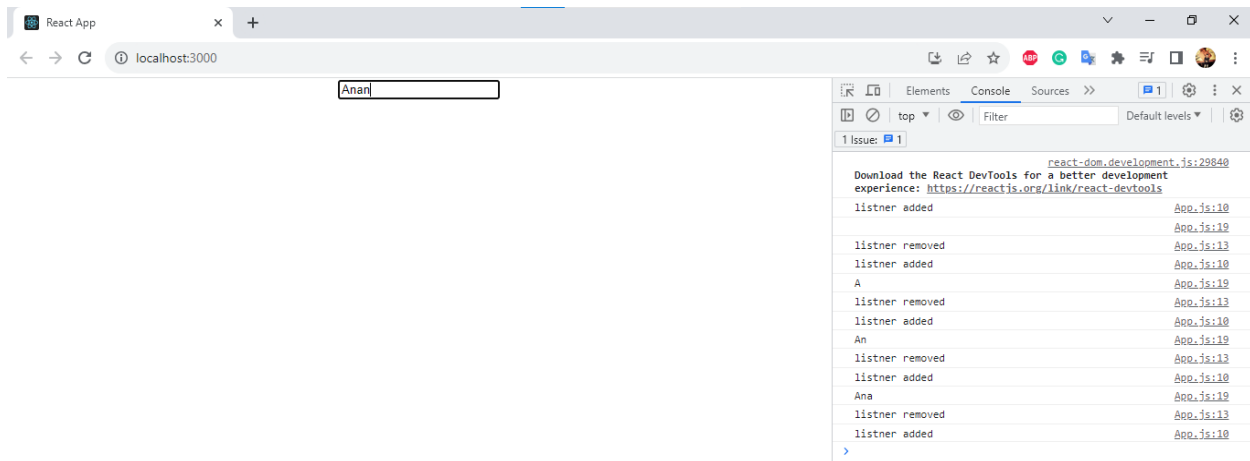
```
1 import './App.css';
2 import {useEffect, useState} from 'react';
3
4 function App() {
5
6   const [text,setText]=useState('');
7
8   const [name,setName]=useState('Love');
9   useEffect(()=>{
10     console.log("listner added ");
11
12     return ()=>{
13       console.log("listner removed ");
14     }
15   },[text]);
16
17   function changeHandler(event){
18     setText(event.target.value);
19     console.log(text);
20   }
21
22   return (
23     <div className="App">
24       <input type="text" onChange={changeHandler}></input>
25     </div>
26   );
27 }
```

PROBLEMS OUTPUT TERMINAL PORTS DEBUG CONSOLE

src\App.js

Line 8:10: 'name' is assigned a value but never used no-unused-vars  
Line 8:15: 'setName' is assigned a value but never used no-unused-vars

webpack compiled with 1 warning



File Edit Selection View Go Run ... 4.React Basics -Class 4

EXPLORER

- 4.REACT BASICS -CLASS 4
  - dummyapp
    - node\_modules
    - public
    - src
      - App.css
      - App.js
      - App.test.js
      - index.css
      - index.js
      - logo.svg
      - reportWebVitals.js
      - setupTests.js
      - .gitignore
      - package-lock.json
      - package.json
      - README.md

dummyapp > src > JS App.js > App > useEffect() callback

```
1 import './App.css';
2 import {useEffect, useState} from 'react';
3
4 function App() {
5
6   const [text,setText]=useState('');
7
8   const [name,setName]=useState('Love');
9   useEffect(()=>{
10     console.log("listner added ");
11
12     return ()=>{
13       console.log("listner removed ");
14     }
15   },[text]);
16
17   function changeHandler(event){
18     setText(event.target.value);
19     console.log(text);
20   }
21
22   return (
23     <div className="App">
24       <input type="text" onChange={changeHandler}></input>
25     </div>
26   );
27 }
```

PROBLEMS OUTPUT TERMINAL PORTS DEBUG CONSOLE

src\App.js

Line 8:10: 'name' is assigned a value but never used no-unused-vars  
Line 8:15: 'setName' is assigned a value but never used no-unused-vars

webpack compiled with 1 warning

*listner is react  
① This code Run  
Error*

```
EXPLORER
DUMMY
  > node_modules
  > public
  > src
    # App.css
    # App.js
    # App.test.js
    # index.css
    # index.js
    # logo.svg
    # reportWebVitals.js
    # setupTests.js
    .gitignore
    package-lock.json
    package.json
    README.md

src > JS App.js M X JS index.js M
7   const [name, setName] = useState('love');
8
9   //variation 1 -> Every Render
10  // useEffect( () => {
11    //   console.log("UI RENDERING DONE");
12  // });
13
14  //variation2 -> First Render
15  // useEffect( () => {
16    //   console.log("UI RENDERING DONE");
17  // }, []);
18
19  //variation 3-> First Render + whenever dependency changes
20  // useEffect( () => {
21    //   console.log("Change observed")
22  // }, [name]);
23
24  //variation 4 -> to handle unmounting of a component
25  useEffect( () => {
26    //add event listener
27    console.log("listener added");
28
29    return () => {
30      console.log("Listener removed");
31    }
32  }, [text]);
33
```

→ सफाई कर रहा है  
cleaning up etc