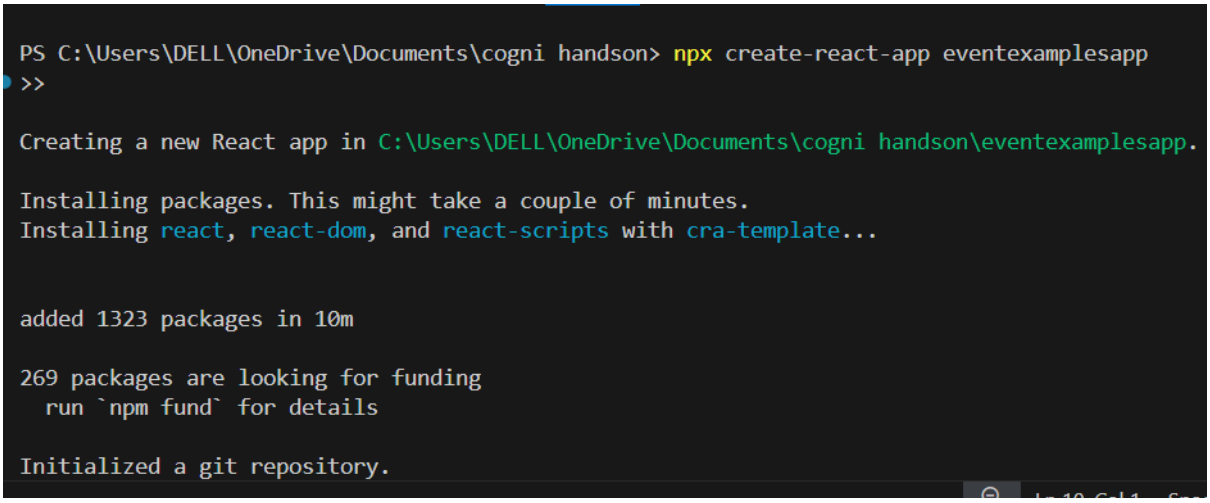
Name:- Vidya CS TRACK:JAVA FSE

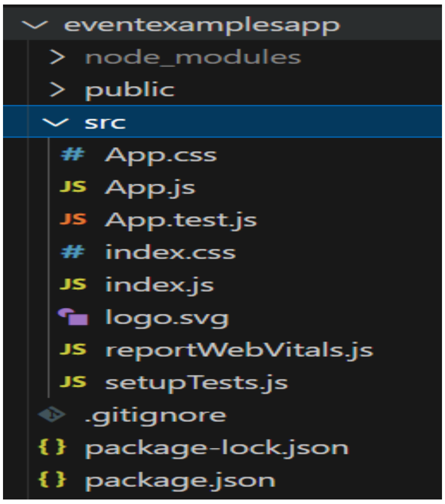
Create a React Application “eventexamplesapp” to handle various events of the form elements in HTML.

1. **Create “Increment” button to increase the value of the counter and “Decrement” button to decrease the value of the counter. The “Increase” button should invoke multiple methods.**
    a. **To increment the value**
    b. **Say Hello followed by a static message.**

Step 1: Create the React App(eventexamplesapp)

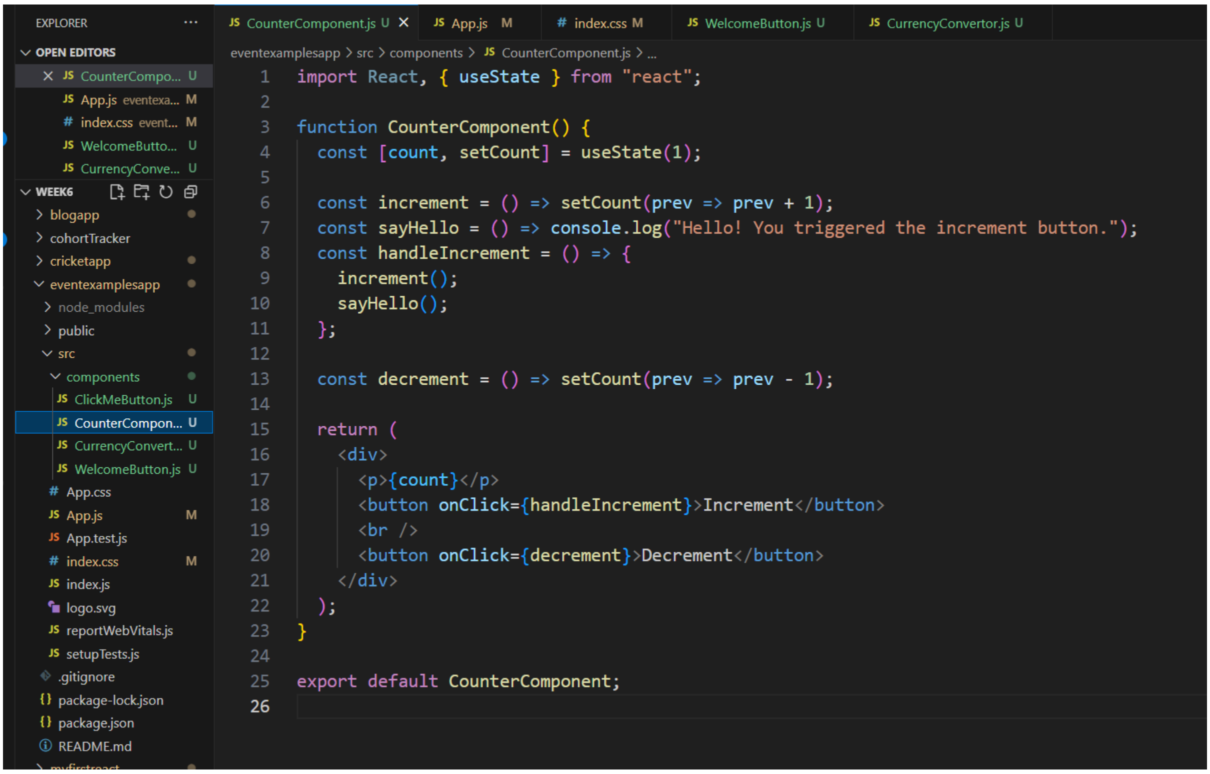


```
PS C:\Users\DELL\OneDrive\Documents\cogni handson> npx create-react-app eventexamplesapp
>>

Creating a new React app in C:\Users\DELL\OneDrive\Documents\cogni handson\eventexamplesapp.

Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts with cra-template...


added 1323 packages in 10m

269 packages are looking for funding
  run `npm fund` for details

Initialized a git repository.
```



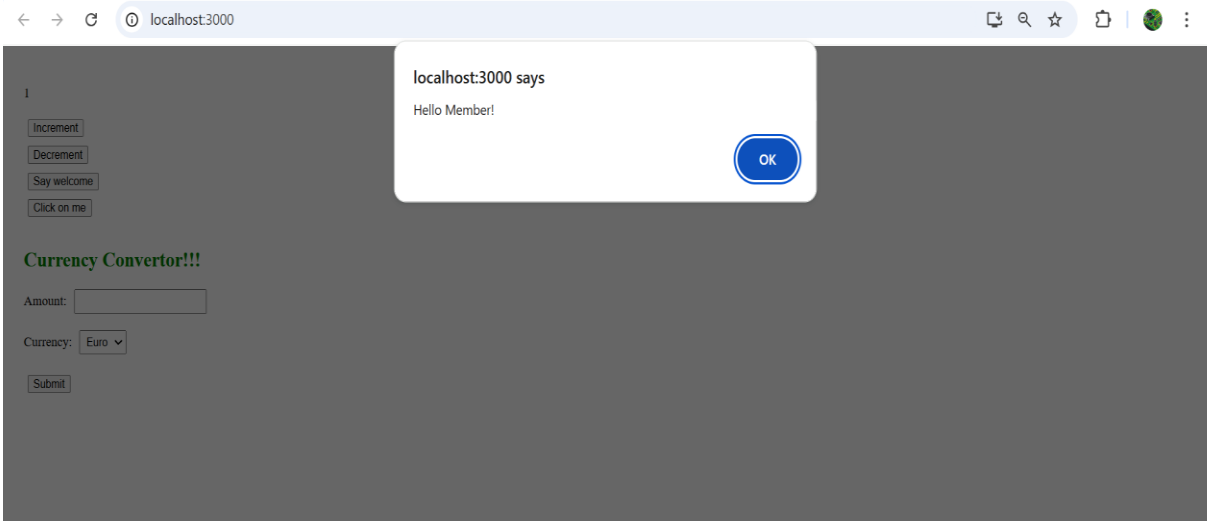
```
eventexamplesapp
  > node_modules
  > public
  src
    App.css
    App.js
    App.test.js
    index.css
    index.js
    logo.svg
    reportWebVitals.js
    setupTests.js
  .gitignore
  package-lock.json
  package.json
```

Step 2: Create components/CounterComponent.js



```
import React, { useState } from "react";

function CounterComponent() {
  const [count, setCount] = useState(1);

  const increment = () => setCount(prev => prev + 1);
  const sayHello = () => console.log("Hello! You triggered the increment button.");
  const handleIncrement = () => {
    increment();
    sayHello();
  };

  const decrement = () => setCount(prev => prev - 1);

  return (
    <div>
      <p>{count}</p>
      <button onClick={handleIncrement}>Increment</button>
      <br />
      <button onClick={decrement}>Decrement</button>
    </div>
  );
}

export default CounterComponent;
```

OUTPUT:-



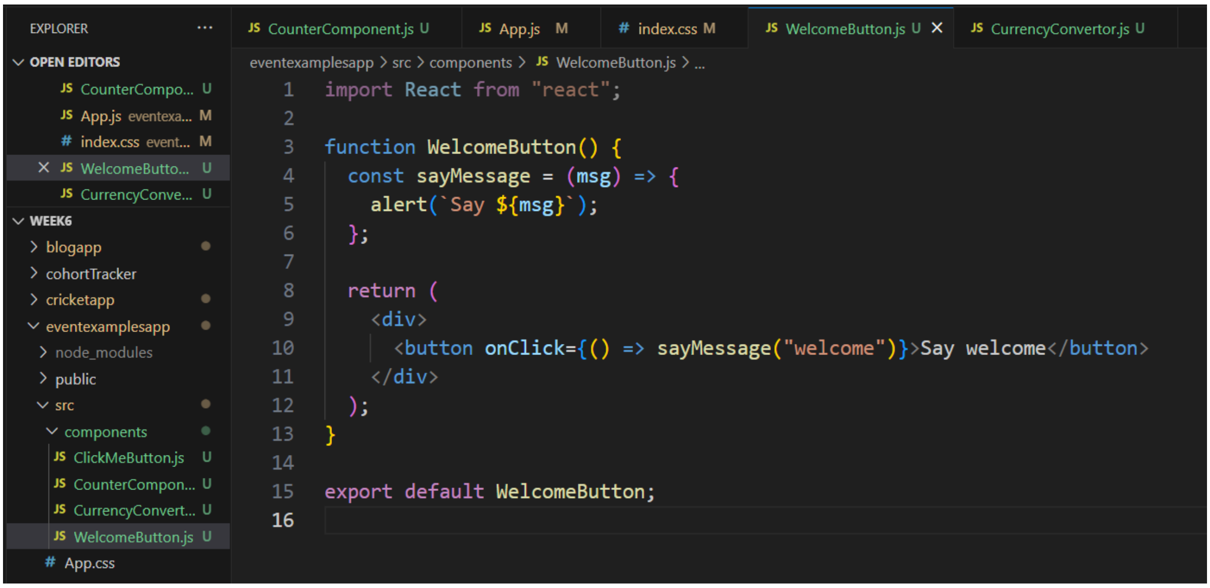
Currency Convertor!!!

localhost:3000 says

Hello Member!

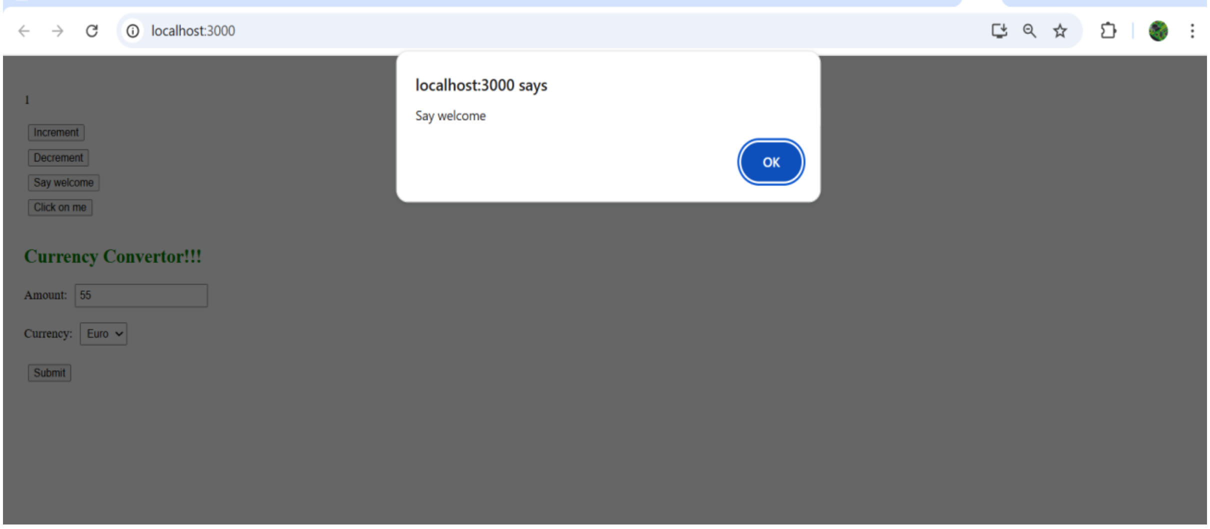
2. **Create a button “Say Welcome” which invokes the function which takes “welcome” as an argument.**

Step 1: Create components/ WelcomeButton.js



```
import React from "react";

function WelcomeButton() {
  const sayMessage = (msg) => {
    alert(`Say ${msg}`);
  };

  return (
    <div>
      <button onClick={() => sayMessage("welcome")}>Say welcome</button>
    </div>
  );
}

export default WelcomeButton;

```

OUTPUT:-



localhost:3000 says

Say welcome

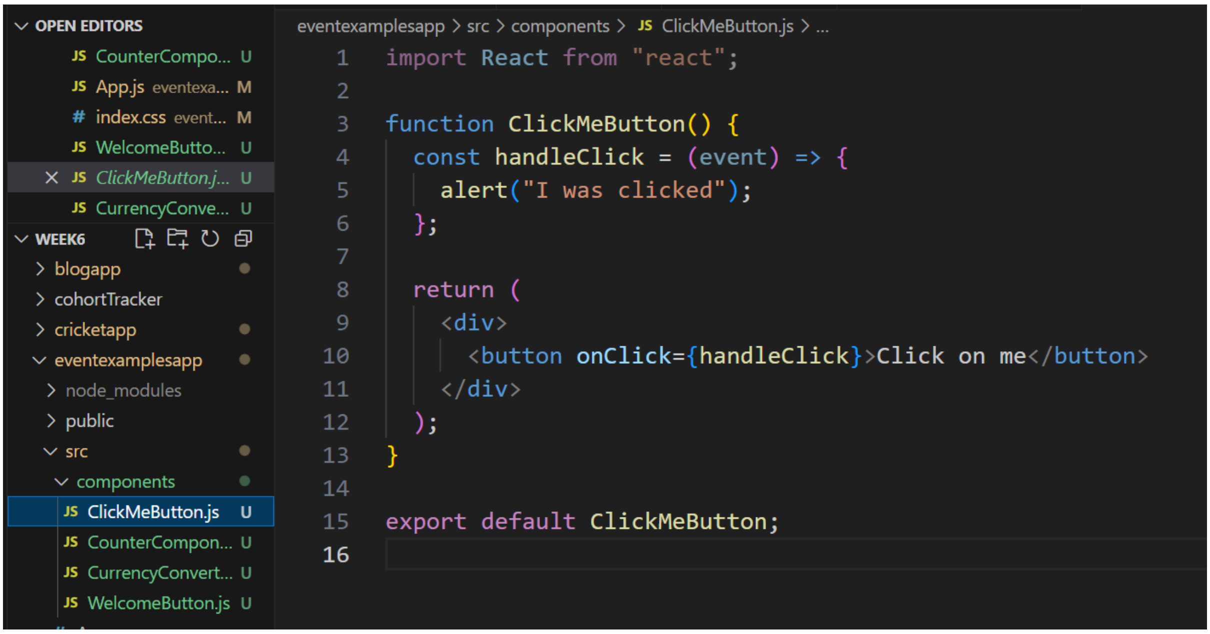
Currency Convertor!!!

Amount: 55

Currency: Euro

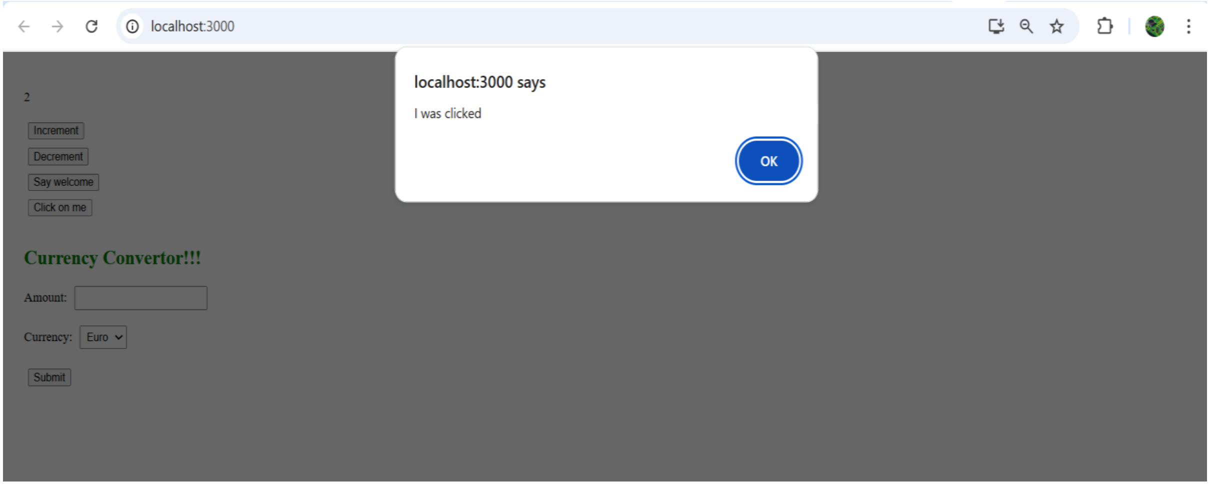
3 . Create a button which invokes synthetic event “OnPress” which display “I was clicked”

Step 1: Create components/ ClickMeButton.js



```
import React from "react";

function ClickMeButton() {
  const handleClick = (event) => {
    alert("I was clicked");
  };

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

export default ClickMeButton;
```

OUTPUT:-



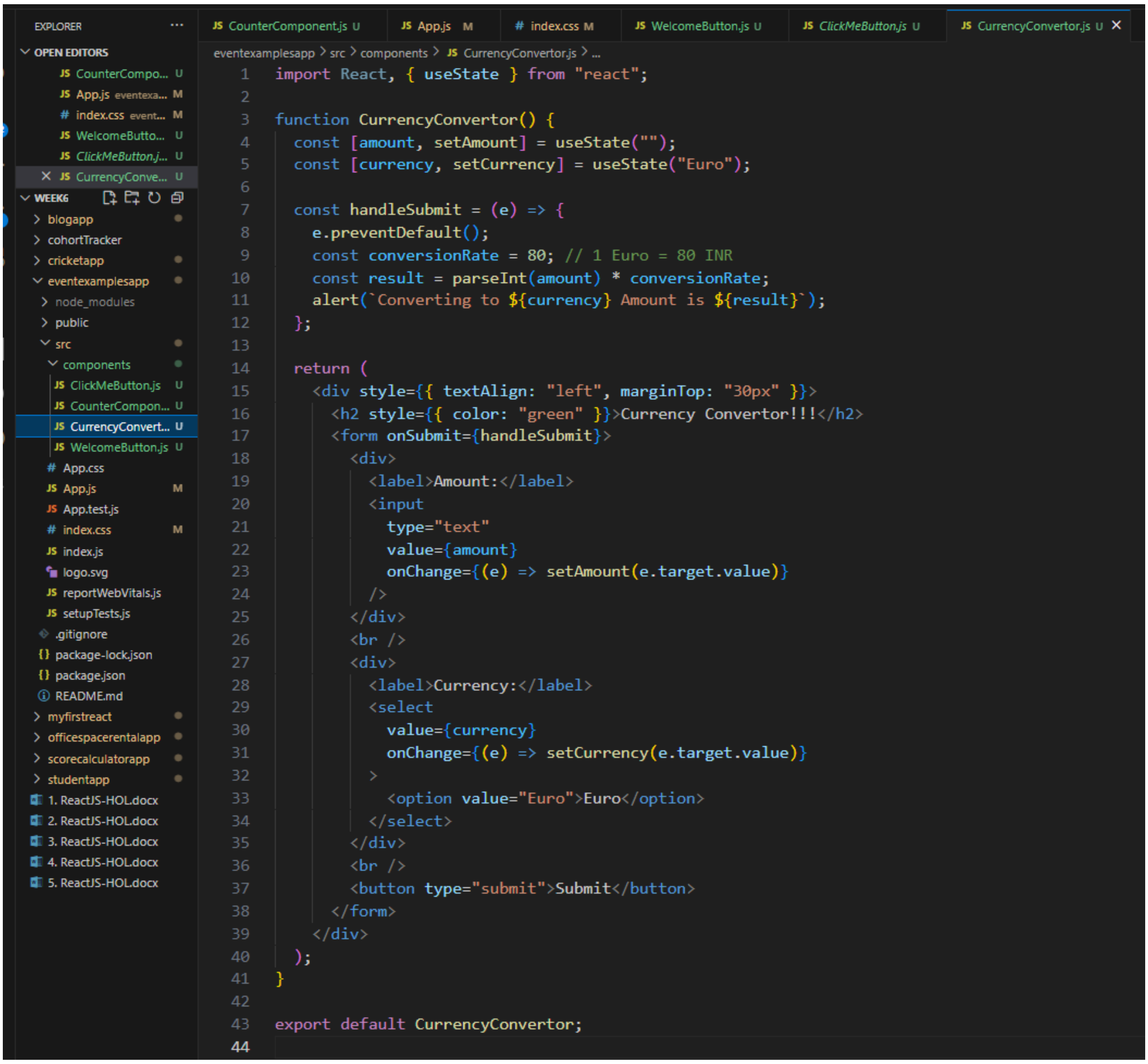
localhost:3000 says

I was clicked

4 .Create a “CurrencyConvertor” component which will convert the Indian Rupees to Euro when the Convert button is clicked.

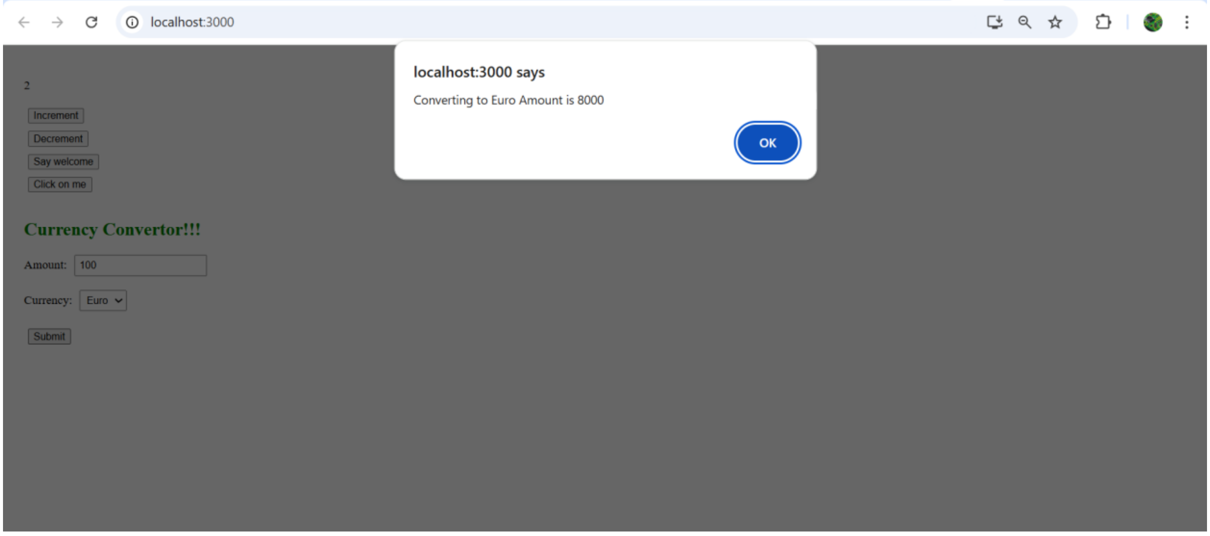
Handle the Click event of the button to invoke the handleSubmit event and handle the conversion of the euro to rupees.

Step 1: Create components/ CurrencyConvertor.js



```
import React, { useState } from "react";

function CurrencyConvertor() {
  const [amount, setAmount] = useState("");
  const [currency, setCurrency] = useState("Euro");

  const handleSubmit = (e) => {
    e.preventDefault();
    const conversionRate = 80; // 1 Euro = 80 INR
    const result = parseInt(amount) * conversionRate;
    alert(`Converting to ${currency} Amount is ${result}`);
  };

  return (
    <div style={{ textAlign: "left", marginTop: "30px" }}>
      <h2 style={{ color: "green" }}>Currency Convertor!!!</h2>
      <form onSubmit={handleSubmit}>
        <div>
          <label>Amount:</label>
          <input
            type="text"
            value={amount}
            onChange={(e) => setAmount(e.target.value)}
          />
        </div>
        <br />
        <div>
          <label>Currency:</label>
          <select
            value={currency}
            onChange={(e) => setCurrency(e.target.value)}
          >
            <option value="Euro">Euro</option>
          </select>
        </div>
        <br />
        <button type="submit">Submit</button>
      </form>
    </div>
  );
}

export default CurrencyConvertor;
```

OUTPUT:-



2

Currency Convertor!!!

Amount: 100

Currency: Euro

localhost:3000 says

Converting to Euro Amount is 8000