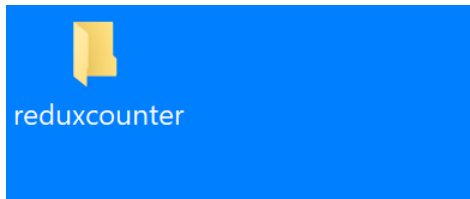REDUX-COUNTER

1- Create a folder called "reduxcounter"

2- Locate to reduxcounter folder with VSCode
3- Open New Terminal

4- Create New React App with below code;

```
npx create-react-app .
```

5- Install redux and react-redux with below code

```
npm install redux react-redux –save
```

6- Start app and delete unimportant codes in App.js

```
Npm start
```

```
import logo from './logo.svg';
import './App.css';

function App() {
  return (
    <div className="App">
    APP JS
    </div>
  );
}

export default App;
```
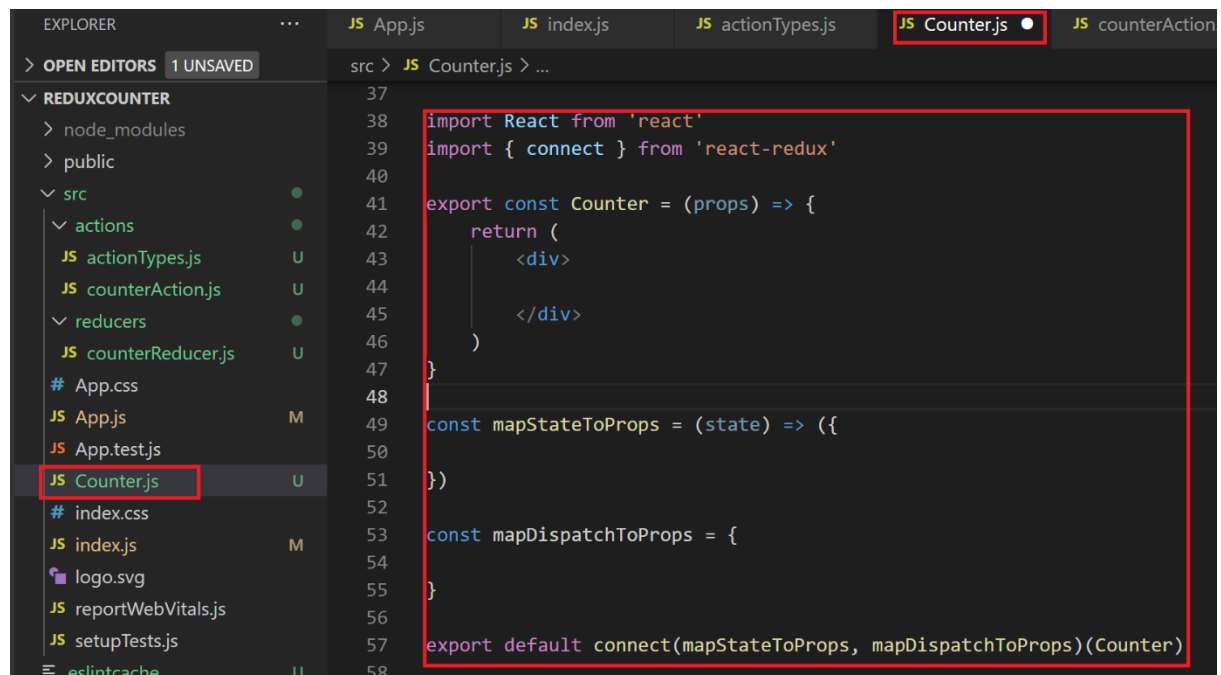
7- Import createStore for store, then create a store in index.js

```
import { createStore } from 'redux';
const store = createStore(…);
```

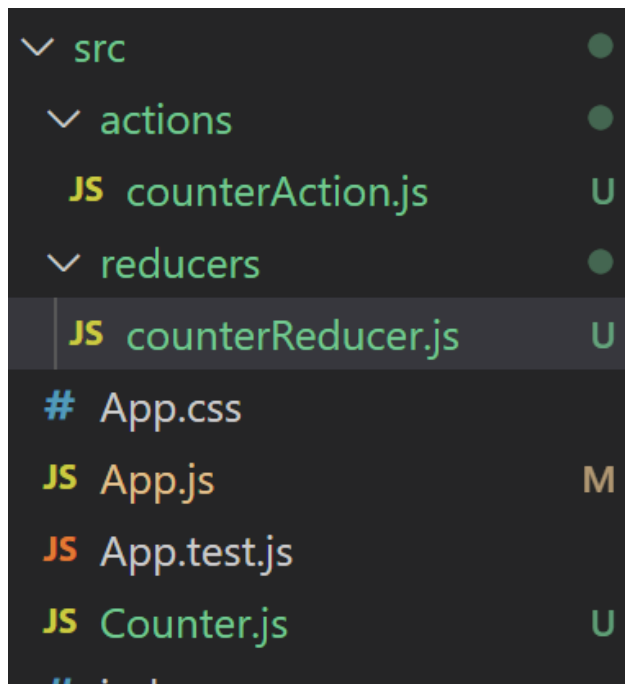8- Import Provider and set Provider Property to App.js (App Component). Then set your store to Provider Object

```
import { Provider } from 'react-redux';
```

```
ReactDOM.render(
  <Provider>
    <App />
  </Provider>,
  document.getElementById('root')
);
```

```
<Provider store={store}>
  <React.StrictMode>
```

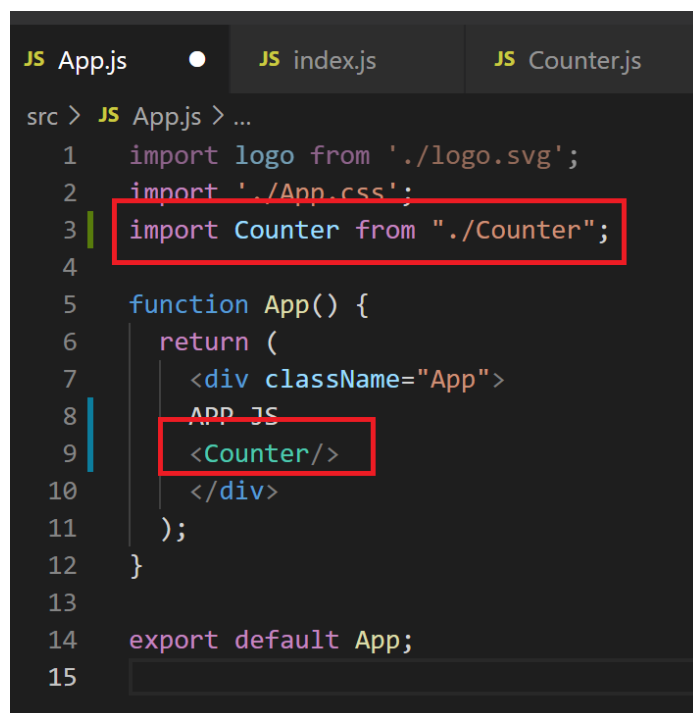9- Create new Component called "Counter.js" with rfcredux snippet

10- Create new folders (actions and reducers) and new files (counterAction.js and counterReducer.js)

11- Import Counter component to App.js

12- Import counterReducer to Index.js and then set createStore function parameter
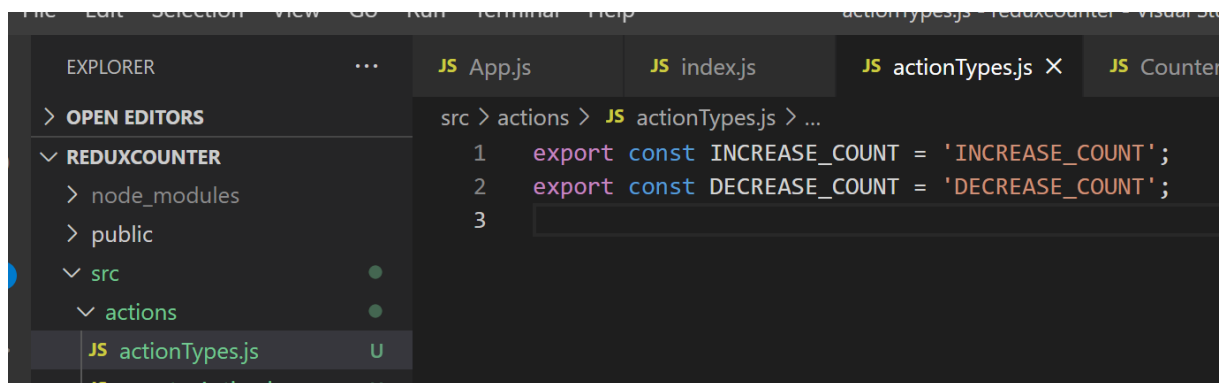
```
import React from 'react';
import ReactDOM from 'react-dom';
import './index.css';
import App from './App';
import reportWebVitals from './reportWebVitals';
import { createStore } from 'redux'
import { Provider } from 'react-redux';
import counterReducer from './reducers/counterReducer';

const store = createStore(counterReducer);
ReactDOM.render(
  <Provider store={store}>
```
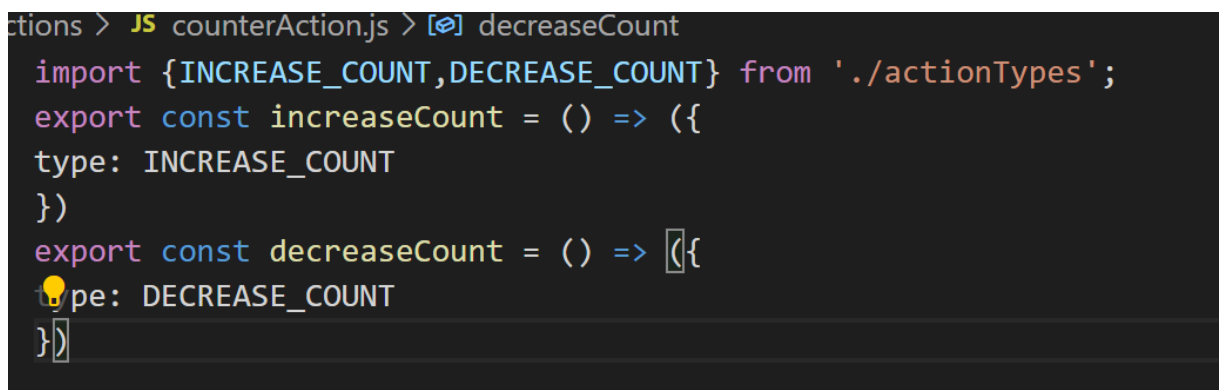
13- Create actionTypes.js in actions folder. Then create constants for Increase and Decrease.


```
src > actions > JS actionTypes.js > ...
  1   export const INCREASE_COUNT = 'INCREASE_COUNT';
  2   export const DECREASE_COUNT = 'DECREASE_COUNT';
  3
```

14- Typing codes for counterAction

```
ctions > JS counterAction.js > [∅] decreaseCount
import {INCREASE_COUNT,DECREASE_COUNT} from './actionTypes';
export const increaseCount = () => ({
type: INCREASE_COUNT
})
export const decreaseCount = () => ({
type: DECREASE_COUNT
})
```

15- Typing codes for counterReducer

```
import { INCREASE_COUNT, DECREASE_COUNT } from "../actions/actionTypes";
const initialState = {
  count: 0,
};
export default function counterReducer(state = initialState, action) {
  switch (action.type) {
    case INCREASE_COUNT:
      return { count: state.count + 1 };
    case DECREASE_COUNT:
      return { count: state.count - 1 };
    default:
      return state;
  }
}
```

16- Install semantic-ui for style.

```
npm install semantic-ui-react semantic-ui-css
```

17- Then import 'semantic-ui-css/semantic.min.css' in App.js


```
src > JS App.js > ☉ App
  1    import logo from './logo.svg';
  2    import './App.css';
  3    import 'semantic-ui-css/semantic.min.css'
  4    import Counter from "./Counter";
```

18- Then in Counter.js ; import {Button , Icon} from semantic-ui-react for button with icons, import bindActionCreators from redux for auto bind and import increaseCount with decreaseCount from.

```
JS App.js        JS index.js       JS actionTypes.js       JS Counter.js  X       JS counterAction.js

src > JS Counter.js > [∅] Counter
  1    import React, { Component } from "react";
  2    import { connect } from "react-redux";
  3    import { Button, Icon } from "semantic-ui-react";
  4    import { bindActionCreators } from "redux";
  5    import { increaseCount, decreaseCount } from "./actions/counterAction";
  6
```

19- Typing code for mapStateToProps and mapDispatchToProps in Counter.js

```
4
5    const mapStateToProps = (state) => {
6      return {
7        count: state.count,
8      };
9    };
0    const mapDispatchToProps = (dispatch) =>
1      bindActionCreators({ increaseCount, decreaseCount }, dispatch);
2
3    export default connect(mapStateToProps, mapDispatchToProps)(Counter);
4
```

20- Typing Code for Counter Component Return Field.

```
const Counter = (props) => {
  return (
    <div>
      <hr style={{paddingTop:"50px"}}/>
      <Button onClick={props.decreaseCount} icon labelPosition="left">
        <Icon name="minus" />
        Decrease
      </Button>
      <span style={{padding:"10px"}}>{props.count}</span>
      <Button onClick={props.increaseCount} icon labelPosition="right">
        <Icon name="plus" />
        Increase
      </Button>
      <hr />
    </div>
  );
};
```

21- Last Viewes

Decrease 4 Increase