Map, Filter, Reduce

App.js

```js
import './App.css';
import MyCart from './components/MyCart';

function App() {
  return (
    <div>
      <MyCart />
    </div>
  );
}

export default App;
```

data.js

```js
export const products = [
  {
    id: 59,
    title: "Spring and summershoes",
    price: 20,
    quantity: 3,
    total: 60,
    discountPercentage: 8.71,
    discountedPrice: 55,
  },
  {
    id: 88,
    title: "TC Reusable Silicone Magic Washing Gloves",
    price: 29,
    quantity: 2,
    total: 58,
    discountPercentage: 3.19,
    discountedPrice: 56,
  },
  {
    id: 18,
    title: "Oil Free Moisturizer 100ml",
    price: 40,
    quantity: 2,
    total: 80,
    discountPercentage: 13.1,
    discountedPrice: 70,
```

```
    },
    {
      id: 95,
      title: "Wholesale cargo lashing Belt",
      price: 930,
      quantity: 1,
      total: 930,
      discountPercentage: 17.67,
      discountedPrice: 766,
    },
    {
      id: 39,
      title: "Women Sweaters Wool",
      price: 600,
      quantity: 2,
      total: 1200,
      discountPercentage: 17.2,
      discountedPrice: 994,
    },
];
```

Helper.js

```javascript
export const findSum = (array) => {
  const totalSum = array.reduce((acc, item) => {
    return acc + item.discountedPrice;
  }, 0);
  return totalSum;
};
```

MyCart.js

```javascript
import React, { Component } from "react";
import DisplayCart from "./DisplayCart";
import FilterData from "./FilterData";
import "./styles.css"

export class MyCart extends Component {
  constructor(props) {
    super(props);
    this.state = {
      displayCart: false,
      displayFilter: false,
    };
  }
  handleClick = e => {
```

```jsx
      if(e.target.id === 'show'){
        this.setState({displayCart: true , displayFilter: false})
      }
      else if(e.target.id === 'filter'){
        this.setState({displayFilter: true, displayCart: false})
      }
    }
  render() {
    return <div>
        <h1>My Shopping Cart</h1>
        <div className="box">
          <button className='myButton'
          id='show' onClick={this.handleClick}>Show Cart</button>
          <button className='myButton'
          id='filter' onClick={this.handleClick}>Filter Cart</button>
          <div className='container'>
            {this.state.displayCart && <DisplayCart />}
            {this.state.displayFilter && <FilterData />}
          </div>
        </div>
      </div>;
  }
}

export default MyCart;
```

DisplayCart.js

```jsx
import React, { Component } from 'react'
import {products as data} from '../data/data.js'
import { findSum } from './helper.js';
export class DisplayCart extends Component {
  constructor(props) {
    super(props)

    this.state = {
      totalSum: 0,
      isClicked: false,
    }
  }
  handleClick = () => {
    const total = findSum(data);
    this.setState({totalSum: total, isClicked: !this.state.isClicked});
  }
  render() {
```

```jsx
        return (
          <div>
            <table border={1}>
                <tr>
                    <th>Name of Item</th>
                    <th>Price of Item</th>
                    <th>Quantity </th>
                    <th>Total </th>
                    <th>Discount Percentage </th>
                    <th>Discount Price </th>
                </tr>
                {
                    data.map((item)=>{
                        return (
                            <tr key={item.id}>
                                <td>{item.title}</td>
                                <td>{item.price}</td>
                                <td>{item.quantity}</td>
                                <td>{item.total}</td>
                                <td>{item.discountPercentage}</td>
                                <td>{item.discountedPrice}</td>
                            </tr>
                        )
                    })
                }
            </table>
            <button onClick={this.handleClick}>FindSum</button>
            {this.state.isClicked && this.state.totalSum}
          </div>
        )
  }
}

export default DisplayCart
```

FilterData.js

```jsx
import { Component } from "react";
import {products} from '../data/data.js';
class FilterData extends Component{

    render(){
        const filteredData = products.filter((item)=>{
            return item.quantity <=2 ? item : '';
        });
        console.log(filteredData);
```

```
        return (
            <div>
                <table border={1}>
                <tr>
                <th>Name of Item</th>
                <th>Price of Item</th>
                <th>Quantity </th>
            </tr>
            {

                filteredData.map((item)=>{
                    return (

                    <tr>
                        <td>{item.title}</td>
                        <td>{item.price}</td>
                        <td>{item.quantity}</td>
                    </tr>
                    )
                })
            }
                </table>
            </div>
        );
    };
}
export default FilterData;
```
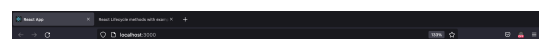
My Shopping Cart

Show Cart	Filter Cart

My Shopping Cart

Show Cart	Filter Cart				

Name of Item	Price of Item	Quantity	Total	Discount Percentage	Discount Price
Spring and summershoes	20	3	60	8.71	55
TC Reusable Silicone Magic Washing Gloves	29	2	58	3.19	56
Oil Free Moisturizer 100ml	40	2	80	13.1	70
Wholesale cargo lashing Belt	930	1	930	17.67	766
Women Sweaters Wool	600	2	1200	17.2	994
FindSum					

My Shopping Cart

Show Cart	Filter Cart				

Name of Item	Price of Item	Quantity	Total	Discount Percentage	Discount Price
Spring and summershoes	20	3	60	8.71	55
TC Reusable Silicone Magic Washing Gloves	29	2	58	3.19	56
Oil Free Moisturizer 100ml	40	2	80	13.1	70
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FindSum 1941					

My Shopping Cart

Show Cart	Filter Cart		

Name of Item	Price of Item	Quantity
TC Reusable Silicone Magic Washing Gloves	29	2
Oil Free Moisturizer 100ml	40	2
Wholesale cargo lashing Belt	930	1
Women Sweaters Wool	600	2