**Create an application to implement state and props**

**Sample Shopping Cart**

**data.js**

const data= [

    {

        pname: 'Samsung Galaxy S22 5G',

        price: 72900,

        rating: 4.5,

        features: ['Android', '6.1 inch display', '8GB Ram'],

        additional: 'A smartphone with difference'

    },

    {

        pname: 'SOnePlus Nord 2T 5G',

        price: 33999,

        rating: 4.2,

        features: ['Android', '6.1 inch display', '8GB Ram'],

        additional: 'A smartphone with difference'

    },

    {

        pname: 'Realme C11 2021',

        price: 8900,

        rating: 3.2,

        features: ['Android', '6.1 inch display', '8GB Ram'],

        additional: 'A smartphone with difference'

    }

]

export default data;

**ProductCart.js**

import React from 'react';

import './ProductCart.css'

export default function ProductCart({ additional,pname,price,rating,features,showAdditional}) {

    return (

     <div className='product-wrapper'>

     <h2>{pname}</h2>

     <h3>{price}</h3>

     <h4>{rating}</h4>

     <div>{features.join(',')}</div>

     <button onClick={event=>alert(additional)}>More Info</button>

     </div>

     );

}

ProductCart.css

.product-wrapper {

    border: solid black 1px;

    margin: 10px;

    padding: 10px;

    width: 200px;

}

.product-wrapper button {

    font-size: 1em;

    border: solid black 1px;

    padding: 10;

    background: none;

    cursor: pointer;

    margin: 10px 0;

}

**App.js**

import './App.css';

import ProductCart from './ProductCart';

import data from './data'

function App() {

  return (

    <div className="wrapper">

    <h1>Products</h1>

    {data.map(product => (

    <ProductCart

    key={product.pname}

    pname={product.pname}

    price={product.price}

    rating={product.rating}

    features={product.features}

    additional={product.additional}

    />

    ))}

   </div>

  );

}

export default App;

--------------------------------OPTIONAL PROGRAM---------

import React, { Component } from 'react'

**App.js**

export class Product extends Component {

  render() {

    return (

      <div>

        <div>

        Shopping Cart: 0 total items.

        </div>

        <div>Total: 0</div>

        <div><span role="img" aria-label="soccer ball">⚽ </span></div>

        <button>Add</button><button>Remove</button>

      </div>

    )

  }

}

export default Product

FINAL CODE(Perform only this practical)

**Shopping Cart Application showing state and props**

**Product.js**

import React, { Component } from 'react'

import './product.css'

const products = [

    {

      pr: '🍦',

      name: 'ice cream',

      price: 50

    },

    {

      pr: '🍩',

      name: 'donuts',

      price: 190,

    },

    {

      pr: '🍉',

      name: 'watermelon',

      price: 30

    }

  ];

  class Product extends Component {

    state={

        cart:[],

        total:0

    }

    currencyOptions = {

        minimumFractionDigits: 2,

        maximumFractionDigits: 2,

      }

      getTotal = () => {

        return this.state.total.toLocaleString(undefined, this.currencyOptions)

      }

      add = (product) => {

        this.setState(state => ({

          cart: [...state.cart, product.name],

          total: state.total + product.price

        }))

      }

      remove = (product) => {

        this.setState(state => {

          const cart = [...state.cart];

          cart.splice(cart.indexOf(product.name))

          return ({

            cart,

            total: state.total - product.price

          })

        })

      }

  render() {

    return (

        <div className="wrapper">

        <div>

          Shopping Cart: {this.state.cart.length} items

        </div>

        <div>Total: {this.getTotal()}</div>

        <div></div>

        <div>

        {products.map(product => (

            <div key={product.name}>

              <div className="product">

                <span role="img" aria-label={product.name}>{product.pr}</span>

              </div>

              <button onClick={() => this.add(product)}>Add</button>

              <button onClick={() => this.remove(product)}>Remove</button>

            </div>

          ))}

        </div>

        </div>

    )

  }

}

export default Product

**product.css**

.product span {

    font-size: 100px;

}

.wrapper {

    padding: 20px;

    font-size: 20px;

    flex: auto;

}

.wrapper button {

    font-size: 20px;

    background: blueviolet;

}

**Import Product.js as given below in Index.js file**

import Product from './Product';

**App.js**

**import './App.css';**

import Product from './Product';

function App() {

  return (

    <>

    <Product></Product>

    </>

  );

}

export default App;