PROBLEM STATEMENT1

Create and display an order detail list for any 4 items which will include the product name, product description, price and quantity. When an onClick event is triggered on a button the quantity has to increase and the total cost has to be calculated and displayed with the update of items quantity.

For styling: Add styling by creating a style object variable the same way as we create a JavaScript.

OBJECTIVE

The objective of this exercise is to test the student on front end frame work React JS. It evaluates the student's knowledge React Js components, ReactJS props and state, ReactJS Lists and Keys, React JS events

PREREQUISITE

In order to complete this exercise, the student needs to understand the fundamentals of HTML,CSS, and JavaScript

SAMPLE SCREENSHOT OF OUTPUT (Just for your reference)

SAMPLE1:

PROGRAM

```html
<html>
 <head>
  <title> REACT JS </title>
  <script
   crossorigin
   src="https://unpkg.com/react@16/umd/react.development.js"
  ></script>
  <script
   crossorigin
   src="https://unpkg.com/react-dom@16/umd/react-dom.development.js"
  ></script>
  <script src="https://unpkg.com/babel-standalone@6.15.0/babel.min.js"></script>
 </head>

<body style="text-align:center;background-color:rgb(208, 197, 193);;">
  <h1 id="Head" style="color:rgb(109, 113, 116);;font-family:cursive; text-decoration:underline">
     HOME CENTER
  </h1>
  <p style="font-size: 25px; font-weight: bold; color: maroon; align:center; font-family: sans-serif;">
   Welcome to the grand festive season sale of home centre !
  </p>
  <h3 style="color: saddlebrown;">FLAT</h3>
  <h2 style="border: 2px dashed hotpink;">40% - 60% OFF</h2>
```

```html
   <h3 style="color: saddlebrown;">ON THE ENTIRE FURNITURE RANGE with 5% cashback on abcd cards</h3>
   <h3 style="color: brown;">HURRY exciting OFFERS on your way!!</h3>
   <p style="color:
hotpink;">&diams;&diams;&diams;&diams;&diams;&diams;&diams;&diams;&diams;&diams;&diams;&diams;
&diams;&diams;&diams;&diams;&diams;&diams;&diams;</p>

  <style>
   .d1 {
    background-color: mistyrose;
    float: left;
    display: grid;
    border-style: solid;
    border-width: medium;
    border-color:maroon;
   }
   .d2 {
    background-color: paleturquoise;
    float: right;
    display: grid;
    border-style: solid;
    border-width: medium;
    border-color:dimgrey;
   }
   .d3 {
    background-color: lemonchiffon;
    float: right;
    display: grid;
    border-style: solid;
    border-width: medium;
    border-color:yellowgreen;
   }
   .d4 {
    background-color: linen;
    float: right;
    display: grid;
    border-style: solid;
    border-width: medium;
    border-color: olive;
   }
   .d5 {
    background-color: thistle;
    float: right;
    display: grid;
    border-style: solid;
```

```
   border-width: medium;
   border-color: plum;
  }

  .i1{
   width : 270px;
   height: 250px;
  }
  .i2{
   width : 270px;
   height: 250px;
  }
  .i3{
   width : 270px;
   height: 250px;
  }
  .i4{
   width : 270px;
   height: 250px;
  }
  .i5{
   width : 270px;
   height: 250px;
  }

  #root{
    position: absolute;
    display: flex;
  }
</style>
<div id="root"></div>
<script type="text/babel">

  class Study_Chair extends React.Component
  {
   render()
   {
    return (
     <div className = "d1" >
       <img src = "study chair.jfif" className = "i1"></img>
       <h1>{this.props.value.item} </h1>
       <h2> Price : {this.props.value.price} </h2>
       <h2> Quantity : {this.props.value.quantity} </h2>
      <button
```

```
      type="button"
      onClick={() => {
       this.props.onQuantity(this.props.value);
      }}
     >
      {" "}
      +{" "}
     </button>
     </div>
    );
  }
}

class Side_Table extends React.Component
{
 render()
 {
   return (
    <div className = "d2">
     <img src = "side table.jfif" className = "i2"></img>
     <h1>{this.props.value.item} </h1>
     <h2> Price : {this.props.value.price} </h2>
     <h2> Quantity : {this.props.value.quantity} </h2>
    <button
      type="button"
      onClick={() => {
       this.props.onQuantity(this.props.value);
      }}
     >
      {" "}
      +{" "}
     </button>
     </div>
    );
  }
}

class Snooker_Stick extends React.Component {
 render() {
   return (
    <div className = "d3">
     <img src = "snooker stick.jfif" className = "i3"></img>
     <h1>{this.props.value.item} </h1>
     <h2> Price : {this.props.value.price} </h2>
```

```
        <h2> Quantity : {this.props.value.quantity} </h2>
      <button
       type="button"
       onClick={() => {
         this.props.onQuantity(this.props.value);
       }}
      >
       {" "}
       +{" "}
      </button>
      </div>
    );
  }
}

 class Lamp extends React.Component
 {
  render()
  {
    return (
     <div className = "d4" >
        <img src = "lamp.jfif" className = "i4"></img>
        <h1>{this.props.value.item} </h1>
        <h2> Price : {this.props.value.price} </h2>
        <h2> Quantity : {this.props.value.quantity} </h2>
      <button
       type="button"
       onClick={() => {
         this.props.onQuantity(this.props.value);
       }}
      >
       {" "}
       +{" "}
      </button>
      </div>
    );
  }
}

 class Curtain extends React.Component
 {
  render()
  {
    return (
```

```
        <div className = "d5" >
          <img src = "curtain.jfif" className = "i5"></img>
          <h1>{this.props.value.item} </h1>
          <h2> Price : {this.props.value.price} </h2>
          <h2> Quantity : {this.props.value.quantity} </h2>
        <button
         type="button"
         onClick={() => {
           this.props.onQuantity(this.props.value);
         }}
        >
         {" "}
         +{" "}
        </button>
        </div>
      );
    }
  }

  class Main extends React.Component {
    state = {
      product:[{item:"STUDY CHAIR",price:7100,quantity:0},
          {item:"SIDE TABLE",price:1020, quantity: 0},
          {item:"SNOOKER STICK",price:2300, quantity:0},
          {item:"LAMP",price:800, quantity:0},
          {item:"CURTAINS",price:3000, quantity:0},

      ],
    };

    handleQuantity = (p)=>{
      let a = p.quantity;
      a=a+1;
      this.setState(state=>{
        p.quantity=a
        return state
  })
  }
  handleBill = ()=>{
    var sum = 0;
    for (var i in this.state)
    {

      var a = this.state[i];
```
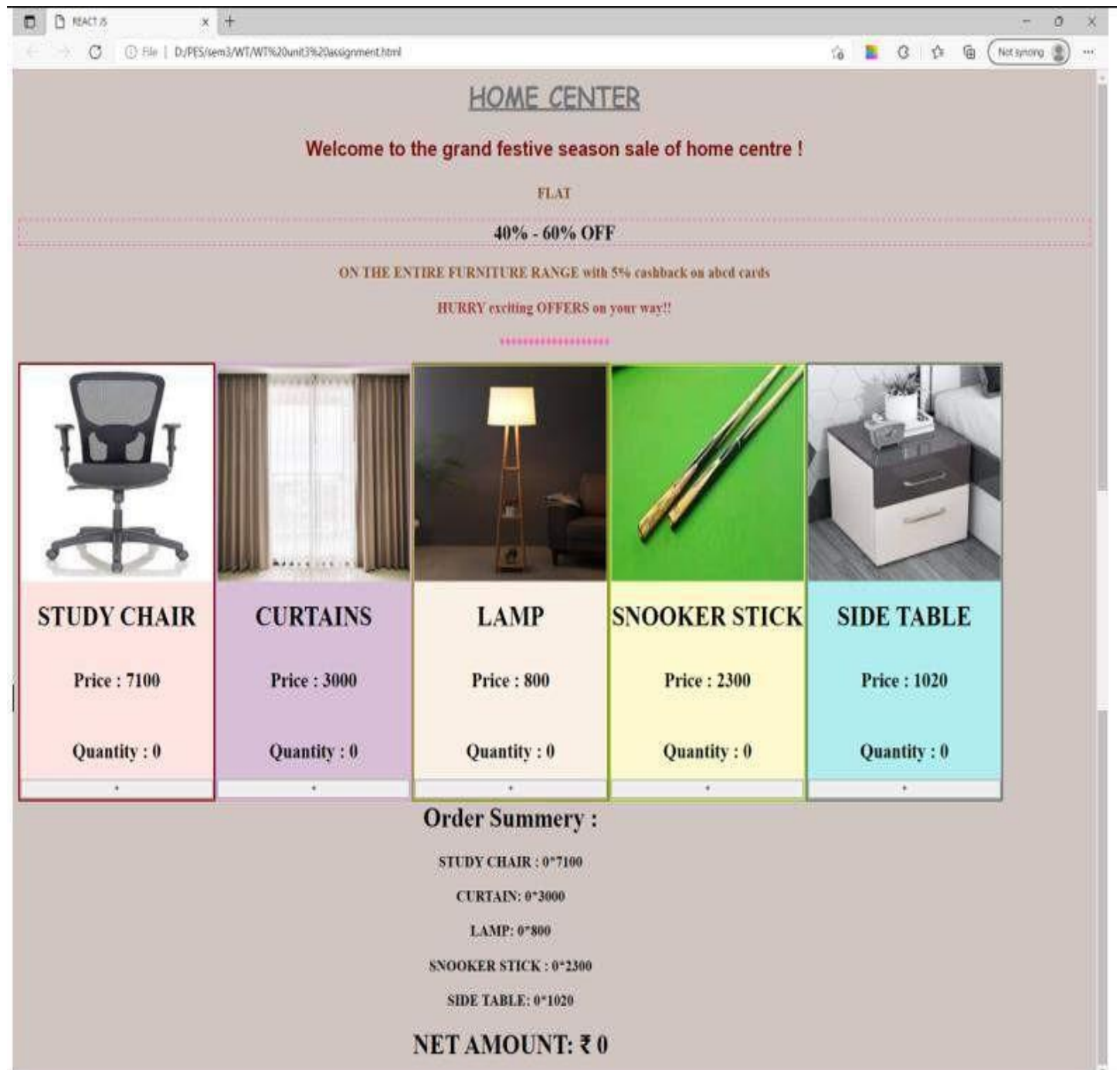
```
        for(var j=0;j<3;j++){
        if (a[j].quantity != 0)
        {
            sum = sum + (a[j].price)*(a[j].quantity);
        }

    }
    }
     return sum
    }
     render() {
      return (
       <div>
         <div>
           <Study_Chair value={this.state.product[0]} onQuantity = {this.handleQuantity} onBill =
{this.handleBill}/>
             <Side_Table value={this.state.product[1]} onQuantity = {this.handleQuantity} onBill =
{this.handleBill}/>
             <Snooker_Stick value={this.state.product[2]} onQuantity = {this.handleQuantity} onBill =
{this.handleBill} />
             <Lamp value={this.state.product[3]} onQuantity = {this.handleQuantity} onBill = {this.handleBill}
/>
             <Curtain value={this.state.product[4]} onQuantity = {this.handleQuantity} onBill = {this.handleBill}
/>
         </div>
         <div>
    <center><h1>Order Summery : </h1>
    <h3><p>STUDY CHAIR : {this.state.product[0].quantity}*7100</p>
    <p>CURTAIN: {this.state.product[4].quantity}*3000</p>
    <p>LAMP: {this.state.product[3].quantity}*800</p>
    <p>SNOOKER STICK : {this.state.product[2].quantity}*2300</p>
    <p>SIDE TABLE: {this.state.product[1].quantity}*1020</p></h3>
    <h1>NET AMOUNT: &#8377; {this.handleBill()}</h1></center>

         </div>
       </div>
      );
     }
    }
    ReactDOM.render(<Main
     />, document.getElementById("root"));
  </script>
 </body>
</html>
```

SCREENSHOT OF YOUR OUTPUT

HOME CENTER

Welcome to the grand festive season sale of home centre !

FLAT

40% - 60% OFF

ON THE ENTIRE FURNITURE RANGE with 5% cashback on abcd cards

HURRY exciting OFFERS on your way!!

STUDY CHAIR	CURTAINS	LAMP	SNOOKER STICK	SIDE TABLE
Price : 7100	Price : 3000	Price : 800	Price : 2300	Price : 1020
Quantity : 1	Quantity : 2	Quantity : 3	Quantity : 2	Quantity : 1

Order Summery :

STUDY CHAIR : 1*7100

CURTAIN: 2*3000

LAMP: 3*800

SNOOKER STICK : 2*2300

SIDE TABLE: 1*1020

NET AMOUNT: ₹ 12720