Create a React Application with Different Components and Interaction Between the Components

Aim :-

To create a React Application with different components and Interaction between the components.

Algorithm :-

Step 1 : Start

Step 2 : We are going to have React application to be opened where we are going have different components and Interaction between the components.

Step 3 : Create a class Employee extends React. components.

Step 4 : In that class we are going to have Id, name, Location, salary as the components of Employee.

Step 5 : Then we are creating a class salary extends React component.

Step 6 : Here we get the salary details such as HRA, Basic salary, special allowances as components.

Step 7 : Now we pass data to child from parent.

Step 8 : We pass values and update the salary details.

Step 9 : Stop.

Program :-

Employee Component

```
class Employee extends React. Component {
constructor (props) {
  super (props);
}

render() {
  return <div>
  <h1> Employee Component.... </h1>
  <p>
      <label>Id : <b>{this.props.Id}</b></label>
  </p>
  <p>
      <label>Name: <b>{this.props.Name}</b></label>
  </p>
  <p>
      <label>Location: <b>{this.props.Location}</b></label>
  </p>
  <p>
      <label>Total Salary: <b>{this.props.Salary}</b></label>
  </p>
      </div>
  }
}
```

Create Salary Component

```
class Salary extends React.Component {
  constructor(props);
    super(props);
  }
  render() {
    return <div>
    <h1> Salary Details... </h1>
<p>
    <label> Basic Salary : <b>{this.props.Basic Salary}</b></label>
</p>
<p>
    <label> Special Allowance : <b>{this.props.Special Allowance}</b></label>
</p>
  </div>
  }
}
```

pass the data from child to Parent

```
constructor(props) {
    super(props);
    this.state = {
      basic : this.props.Basic Salary,
      hra : this.props.HRA,
      sa : this.props.Special Allowance
    };
```

```
<p>
    <label>Basic Salary: <input type="text" defaultValue={this.state.basic}
ref="BasicSalary"/></label>
</p>
<p>
    <label>HRA : <input type="text" defaultValue={this.state.hra} ref=
                                "HRA"/></label>

</p>
<p>
    <label>Special Allowance : <input type="text" defaultValue={this.state.sa}
ref="SpecialAllowance"/></label>
</p>
<button onClick={this.updateSalary}>Update</button>
updateSalary = () => {
    let salary = parseInt(this.refs.BasicSalary.value)+ parseInt(this.refs.HRA.
value)+ parseInt(this.refs.SpecialAllowance.value);
}
<Salary BasicSalary={this.props.BasicSalary} HRA={this.props.HRA}
SpecialAllowance={this.props.SpecialAllowance} onSalaryChanged={this.getUpdated
Salary}></Salary>
getUpdatedSalary = (salary) => {
this.setState({updatedSalary: salary});
}
<p>
    <label>Updated Salary : <b>{this.state.updatedSalary}</b></label>
</p>
```

Result:-

Thus the program to create a React application with different components and interaction between the components has been executed successfully.

Employee Component...

Id : 101

Name : Pragim Tech

Location : Bangalore

Total Salary : 50000

Updated Total Salary : 55000

Salary Details...

Basic Salary : | 25000 |

HRA : | 15000 |

Special Allowance : | 15000 |

| Update |