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Install node is from node is.org

After installing node is hit bellow command in terminal

```
npx create-react-app my-app
```

This will create a react app named my-app and install all the dependences its need.

Then go to the my-app folder using 'cd' command and in the my-app folder where package.json file lives enter

### npm start

This will execute the project.

## >> How TO Add Dynamic Content in React (JSX) content

```
i am a person and i am { Math.floor(Math.random() *30) }
```

Where "Math.floor(Math.random() \*30)" is a js function that will return random value

Dynamic values are added within curly braces { Dynamic value }

## >> Working With Props

### In app.js

#### In Persion.js

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## >> Children properties

```
In app.js
```

```
import Person from './Person/Persion'
class App extends Component {
 render() {
  return (
   <div className="App">
       <Person name = "joy" age="43"> This is a children text </Person>
   </div>
 }//render
In Persion.js
import React from 'react';
const person = (props) => {
       return(
                     <div>
                     i am a {props.name} and i am {props.age}
                     {props.children}
                     </div>
export default person;
>> STATE in React
In app.js
import Person from './Person/Persion'
class App extends Component {
 state = {
  person:[
  { name: 'neeraj', age: 100 },
  { name:'joy', age: 211 }
 }//state
 render() {
  return (
   <div className="App">
       <Person name = {this.state.person[0].name} age={this.state.person[0].age} />
       <Person name = {this.state.person[0].name} age={this.state.person[0].age} />
   </div>
}//render
```

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```
In Persion.js
import React from 'react';
const person = (props) => {
       return(
                     i am a {props.name} and i am {props.age}
                     </div>
export default person;
>> OnClick listener
In app.js
import Person from './Person/Persion'
class App extends Component {
 state = {
  person:[
  { name: 'neeraj', age: 100 },
  { name:'joy', age: 211 }
 }//state
 switchNameHandler = () => {
  console.log("switch name is called");
 }
 render() {
  return (
   <div className="App">
       <button onClick={this.switchNameHandler}>Switch Name
       <Person name = {this.state.person[0].name} age={this.state.person[0].age} />
       <Person name = {this.state.person[0].name} age={this.state.person[0].age} />
   </div>
 }//render
>> setState
In app.js
import Person from './Person/Persion'
class App extends Component {
 state = {
  person:[
  { name: 'neeraj', age: 100 },
  { name:'joy', age: 211 }
```

}//state

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```
switchNameHandler = () => {
  this.setState({
   person:[
    name: 'neeraj_sharma', age: 100 },
    name:'joy', age: 211 }
  })//setState
 }//switchNameHandler
 render() {
  return (
   <div className="App">
       <button onClick={this.switchNameHandler}>Switch Name/button>
       <Person name = {this.state.person[0].name} age={this.state.person[0].age} />
       <Person name = {this.state.person[0].name} age={this.state.person[0].age} />
   </div>
  );
}//render
>> On Click in persion.js function
In app.js
import Person from './Person/Persion'
class App extends Component {
 state = {
  person:[
  { name: 'neeraj', age: 100 },
  { name:'joy', age: 211 }
 }//state
switchNameHandler = () => {
  this.setState({
   person:[
    name:'neeraj_sharma', age: 100 },
    name:'joy', age: 211 }
  })//setState
 }/switchNameHandler
 render() {
  return (
   <div className="App">
       <button onClick={this.switchNameHandler}>Switch Name
       <Person
          name = {this.state.person[0].name}
          age = {this.state.person[0].age}
          click = {this.switchNameHandler}
       />
   </div>
 }//render
```

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# In Persion.js

```
import React from 'react';
const person = (props) => {
       return(
                    <div>
                    i am a {props.name} and i am {props.age}
             );
export default person;
>> Pass argument to hander >> bind
In app.js
import Person from './Person/Persion'
class App extends Component {
 state = {
  person:[
  { name: 'neeraj', age: 100 },
  { name:'joy', age: 211 }
 }//state
 switchNameHandler = (newName) => {
   this.setState({
   person:[
   { name:newName, age: 100 },
    name:'joy', age: 211 }
  })//setState
 }//switchNameHandler
 render() {
  return (
   <div className="App">
       <but
       onClick={this.switchNameHandler.bind(this,"neeraj sharma")} >
       Switch Name
       </button>
       <Person
         name = {this.state.person[0].name}
         age = {this.state.person[0].age}
         click = {this.switchNameHandler.bind(this,"neeraj_kumar")}
       />
   </div>
 }//render
```

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### >> Another way Pass argument to hander without bind using arrow method =>

There is a another way to pass argument but it is not the most efficient way

```
onClick={ () => this.switchNameHandler("neeraj_sharma")}>
Switch Name
</button>
>> Input tag
In Persion.js
import React from 'react';
const person = (props) => {
       return(
                     <div>
                     i am a {props.name} and i am {props.age}
                     <input type="text" onChange={props.changed} value={props.name}/>
                     </div>
              );
export default person;
In app.js
import Person from './Person/Persion'
class App extends Component {
 state = {
  person:[
   name:'neeraj', age: 100 },
   name:'joy', age: 211 }
 }//state
 nameChangeHandler = (event) => {
  this.setState({
   person:[
    { name:event.target.value, age: 100 },
     name:'joy', age: 211 }
  })//setState
 }//nameChangeHandler
 render() {
  return (
   <div className="App">
       <Person
          name = {this.state.person[0].name}
          age = {this.state.person[0].age}
          changed= {this.nameChangeHandler}/>
   </div>
 }//render
```