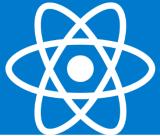


Forms in React JS

Form



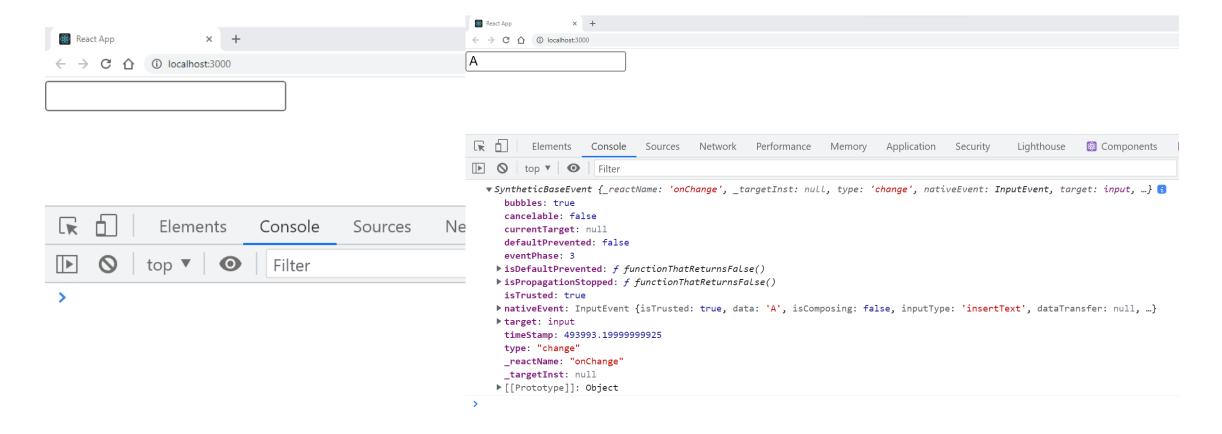
Get Event All Details

```
Js App.js M X
src > Js App.js > ...
       import React from 'react';
       class App extends React.Component {
         constructor(props) {
           super(props);
           this.state = { };
        onChangeProcess(event){
           console.log(event);
  10
 11
        render() {
           return (
               <input type="text" name="txt1" onChange={this.onChangeProcess.bind(this)}/>
             </div>
 17
  20
      export default App;
```





Event Details Print







Get Event Name and Value

```
Js App.js M X
src > Js App.js > 😭 App
                                                                                                           ← → C ↑ (i) localhost:3000
       import React from 'react';
                                                                                                          Akash
       class App extends React.Component {
         constructor(props) {
           super(props);
           this.state = { };
         onChangeProcess(event){
                                                                                                                                 Console
                                                                                                                                                                Performance
                                                                                                                      Elements
                                                                                                                                          Sources
                                                                                                                                                      Network
                                                                                                                                                                              Mem
           console.log("Event Target Name is " + event.target.name + " Value is " + event.target.value);
                                                                                                                     top ▼ O
  11
                                                                                                             Event Target Name is txt1 Value is A
         render() {
                                                                                                             Event Target Name is txt1 Value is Ak
           return (
                                                                                                             Event Target Name is txt1 Value is Aka
               <input type="text" name="txt1" onChange={this.onChangeProcess.bind(this)}/>
                                                                                                             Event Target Name is txt1 Value is Akas
             </div>
                                                                                                             Event Target Name is txt1 Value is Akash
  17
       export default App;
```





Form on Change Get Value

```
Js App.js M X
                                                                                                     ← → C ♠ ① localhost:3000
src > Js App.js > [6] default
        import React from "react";
       class App extends React.Component {
          constructor(props) {
                                                                                                              Elements
                                                                                                                       Console Sources
                                                                                                                                        Netv
            super(props);
            this.state = {};
                                                                                                                             ← → C ♠ ① localhost:3000
                                                                                                     x Expression
                                                                                                                            Akash
                                                                                                       not available
          handleChange(event){
            console.log(event.target.value);
                                                                                                                                        Elements
                                                                                                                                                 Console
                                                                                                                                                           Source
  11
  12
          render() {
                                                                                                                                 ⊘ top ▼ ⊙
  13
            return (
                                                                                                                             x Expression
              <div>
                                                                                                                               not available
                <input type="text" name="txt1" onChange={this.handleChange.bind(this)} />
  15
                                                                                                                                Α
              </div>
                                                                                                                                Αk
                                                                                                                               Aka
  18
  19
                                                                                                                                Akas
       export default App;
                                                                                                                                Akash
                                                                                                                               Akash
```





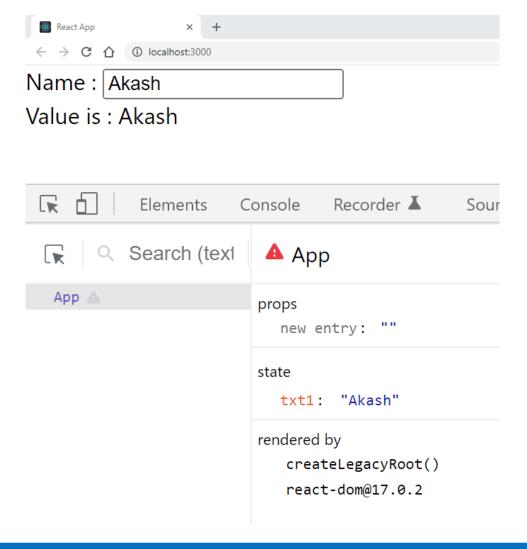
Assign Textbox Value to State and Print it

```
Js App.js
           ×
src > Js App.js > ...
       import React from 'react';
       class App extends React.Component {
         constructor(props) {
           super(props);
           this.state = {txt1 : ""}
         handleChange(event) {
             this.setState(
                 txt1 : event.target.value,
 11
 12
             );
 13
         render() {
           return (
 17
                Name : <input type="text" name="txt1" autoComplete="off" onChange={this.handleChange.bind(this)} />
                <br/>
                Value is : {this.state.txt1}
             </div>
 22
 23
       export default App;
```





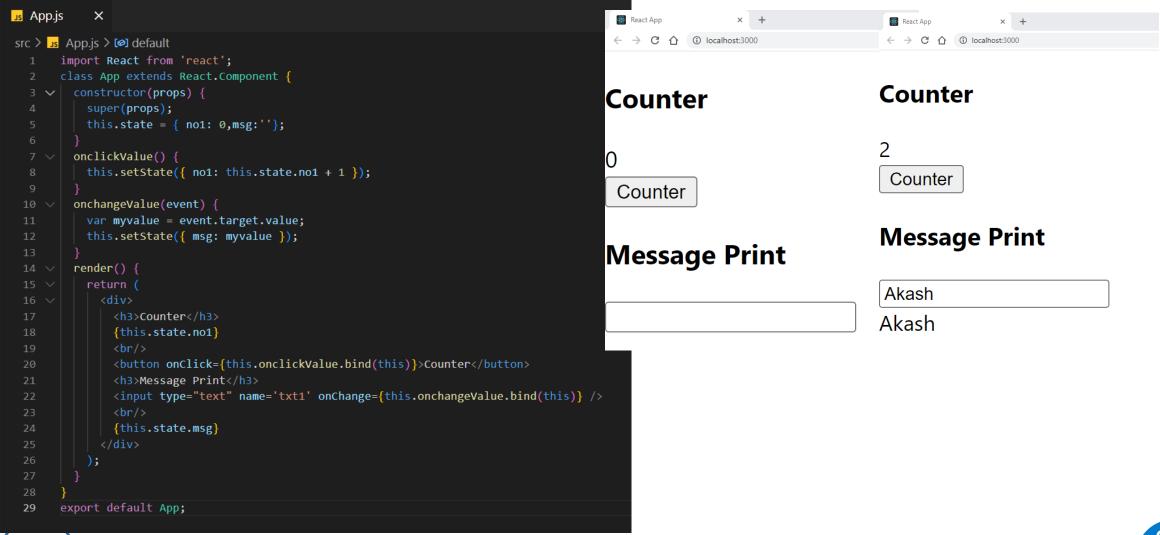
OnChange Value will be Store and State and Print it.







OnChange and OnSubmit







FormSubmit Data Get

```
Js App.js
                                                                                                        React App
src > Js App.js > ♣ App > ♠ handleChange
                                                                                                       ← → C ☆ ⑤ localhost:3000
      import React from 'react';
       class App extends React.Component {
                                                                                                      |Name :|
                                                                                                                                      localhost:3000 says
                                                                                                                      Akash
        constructor(props) {
          super(props);
          this.state = {txt1 : ""}
                                                                                                        Submit
        handleChange(event) {
            this.setState(
                                                                                                      Value is : Akash
                txt1 : event.target.value,
        handleSubmit(event) {
          alert(this.state.txt1);
          event.preventDefault();
         render() {
          return (
              <form onSubmit={this.handleSubmit.bind(this)}>
               Name : <input type="text" name="txt1" autoComplete="off" onChange={this.handleChange.bind(this)} /> <br/>
               <input type="submit" /> <br/>
               Value is : {this.state.txt1}
               </form>
       export default App;
```





Multiple Textbox with Different Handle

```
JS App.js X
src > Js App.js > 😭 App
 1 import React from 'react';
      class App extends React.Component {
        constructor(props) {
          super(props);
          this.state = {txt1 : "",txt2 : ""}
        handleChange1(event) {
            this.setState(
              { txt1 : event.target.value}
        handleChange2(event) {
          this.setState(
          { txt2 : event.target.value}
        handleSubmit(event) {
          alert(this.state.txt1 + this.state.txt2);
          event.preventDefault();
        render() {
          return (
              <form onSubmit={this.handleSubmit.bind(this)}>
               Name : <input type="text" name="txt1" autoComplete="off" onChange={this.handleChange1.bind(this)} /> <br/>
               Surname : <input type="text" name="txt2" autoComplete="off" onChange={this.handleChange2.bind(this)} /> <br/> <br/> <br/>
               <input type="submit" /> <br/>
               txt1 is : {this.state.txt1} <br/>
               txt2 is : {this.state.txt2}
 34
      export default App;
```







txt1 is: Akash

txt2 is: Padhiyar



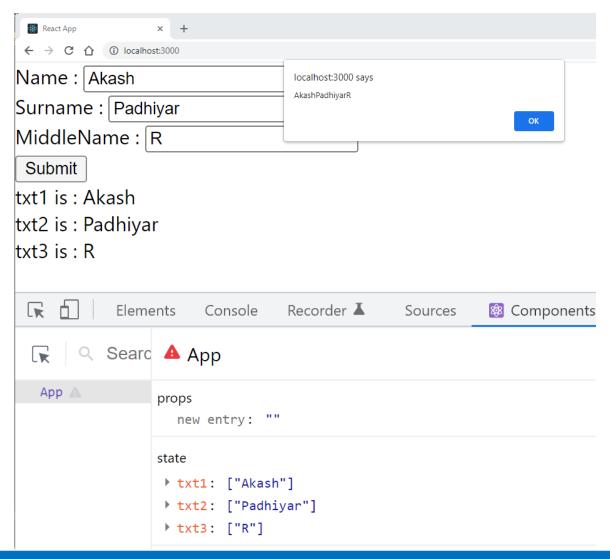


Multiple Value with Array

- To get multiple values we can use array object.
- State name and control name need to be same.

```
Js App.js X
src > Js App.js > ⇔ App > ↔ render
       import React from 'react';
       class App extends React.Component {
         constructor(props) {
           super(props);
           this.state = {txt1 : "",txt2 : "",txt3 : ""}
         handleChange(event) {
             this.setState(
              { [event.target.name]:[event.target.value] }
         handleSubmit(event) {
           alert(this.state.txt1 + this.state.txt2 + this.state.txt3);
           event.preventDefault();
         render() {
               <form onSubmit={this.handleSubmit.bind(this)}>
                Name : <input type="text" name="txt1" autoComplete="off" onChange={this.handleChange.bind(this)} /> <br/>
                Surname : <input type="text" name="txt2" autoComplete="off" onChange={this.handleChange.bind(this)} /> <br/> <br/> 
                MiddleName : <input type="text" name="txt3" autoComplete="off" onChange={this.handleChange.bind(this)} /> <br/> <br/>
                <input type="submit" /> <br/>
                txt1 is : {this.state.txt1} <br/>
                txt2 is : {this.state.txt2}<br/>
                txt3 is : {this.state.txt3}<br/>
      export default App;
```







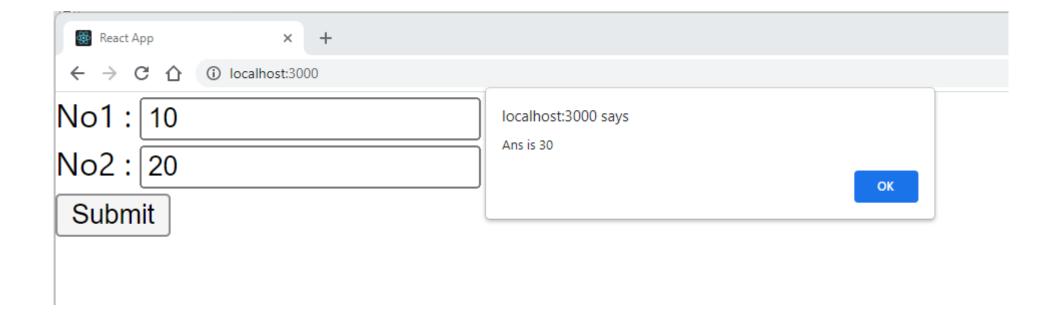


Sum (Same Function for Both txt)

```
Js App.js X
src > Js App.js > 😭 App
  1 import React from 'react';
      class App extends React.Component {
        constructor(props) {
           super(props);
          this.state = {no1 : "",no2 : "",ans : ""}
         handleChange(event) {
             this.setState(
              { [event.target.name]:[event.target.value] }
         handleSubmit(event) {
          var a = parseInt(this.state.no1);
          var b = parseInt(this.state.no2);
           var c = a + b;
           this.setState({ans : this.state.ans});
           alert("Ans is " + c);
           event.preventDefault();
         render() {
           return (
               <form onSubmit={this.handleSubmit.bind(this)}>
               No1 : <input type="number" name="no1" onChange={this.handleChange.bind(this)} /> <br/>
               No2 : <input type="number" name="no2" onChange={this.handleChange.bind(this)} /> <br/>
               <input type="submit" /> <br/>
               </form>
       export default App;
```











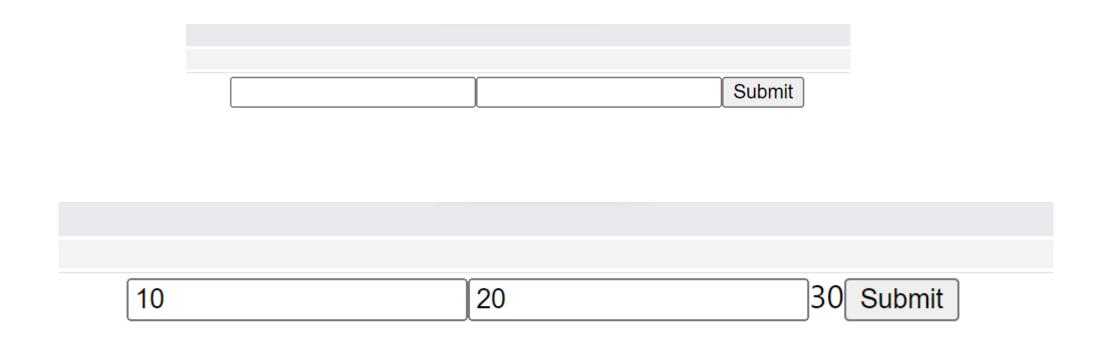
Sum Example

```
import React from 'react';
     class App extends React.Component {
         constructor(props) {
              super(props);
              this.state = {
                  txt1: "", txt2: "", txt3: "",
         onChangeProcess(event) {
              this.setState({ txt1: event.target.value });
11
12
                                                                         render() {
13
         onChangeProcess1(event) {
                                                                             return (
              this.setState({ txt2: event.target.value });
14
15
                                                                                    <form onSubmit={this.onClickData.bind(this)}>
         onClickData(event) {
                                                                                        <input type="text" name='txt1' onChange={this.onChangeProcess.bind(this)} />
17
                                                                                        <input type="text" name='txt2' onChange={this.onChangeProcess1.bind(this)} />
                                                                                        {this.state.txt3}
              var a = this.state.txt1;
                                                                                        <input type="submit" />
             var b = this.state.txt2;
                                                                                    </form>
             var c = parseInt(a) + parseInt(b);
21
                                                                                 </div>
              this.setState({ txt3: c });
              event.preventDefault();
23
                                                                 39
24
                                                                     export default App;
25
```





Output







Output

```
import React from 'react';
class App extends React.Component {
  constructor(props) {
    super(props);
    this.state = {
      txt1: "", txt2: "", txt3: "",
  onChangeProcess(event) {
    this.setState({ txt1: event.target.value });
  onChangeProcess1(event) {
    this.setState({ txt2: event.target.value });
  onClickData(event) {
    var a = this.state.txt1;
    var b = this.state.txt2;
    var c = parseInt(a) + parseInt(b);
    this.setState({ txt3: c });
    event.preventDefault();
```





Textbox Radio Dropdown

```
Js App.js
src > Js App.js > ♣ App > ♠ onChangeHandler
       import React, { Component } from "react";
       class App extends Component {
         constructor(props) {
           super(props);
           this.state = {
             studentName: "",
             gender: "",
             state: "Ahmedabad"
  10
           };
           this.onChangeHandler = this.onChangeHandler.bind(this);
  11
  12
         onChangeHandler(e) {
  13
  14
           this.setState({
              [e.target.name]: e.target.value
  15
           });
  16
  17
```

```
import React, { Component } from "react";

class App extends Component {
  constructor(props) {
    super(props);
    this.state = {
       studentName: "",
       gender: "",
       state: "Ahmedabad"
    };
    this.onChangeHandler = this.onChangeHandler.bind(this);
}

onChangeHandler(e) {
    this.setState({
       [e.target.name]: e.target.value
    });
}
```





Code

```
render() {
        return (
          <h3>Form</h3>
         <form>
        Name : <input type="text" name="studentName" placeholder="Name" onChange={this.onChangeHandler} />
        Gender: Male <input type="radio" name="gender" value="male"
                checked={this.state.gender === "male"} onChange={this.onChangeHandler} />
                Female <input type="radio" name="gender" value="female"</pre>
                checked={this.state.gender === "female"} onChange={this.onChangeHandler} />
        State : <select name="state" value={this.state.state} onChange={this.onChangeHandler}>
                  <option value="">Select</option>
                  <option value="Ahmedabad">Ahmedabad</option>
                  <option value="Maharashtra">Maharashtra</option>
                  <option value="Madhya Pradesh">Madhya Pradesh</option>
                </select>
         </form>
        State of Component
            {JSON.stringify(this.state, null, 2)}
          </div>
44
    export default App;
```

```
render() {
 return (
 <div>
  <h3>Form</h3>
 Name: <input type="text" name="studentName" placeholder="Name" onChange={this.onChangeHandler} />
 Gender: Male <input type="radio" name="gender" value="male"
     checked={this.state.gender === "male"} onChange={this.onChangeHandler}/>
     Female <input type="radio" name="gender" value="female"
     checked={this.state.gender === "female"} onChange={this.onChangeHandler} />
 State: <select name="state" value={this.state.state} onChange={this.onChangeHandler}>
      <option value="">Select</option>
      <option value="Ahmedabad">Ahmedabad</option>
      <option value="Maharashtra">Maharashtra</option>
      <option value="Madhya Pradesh">Madhya Pradesh</option>
     </select>
 </form>
  <hr />
 State of Component
   <[SON.stringify(this.state, null, 2)}</pre>
  </div>
export default App;
```





Output



Form

Name : Name Gender: Male O Female O

State : Select v

State of Component

```
{
    "studentName": "",
    "gender": "",
    "state": ""
}
```

Form

```
Name : Akash
```

Gender: Male • Female •

State : Ahmedabad ~

State of Component

```
{
   "studentName": "Akash",
   "gender": "male",
   "state": "Ahmedabad"
}
```





Code

```
import React, { Component } from "react";
class App extends Component {
 constructor(props) {
 super(props);
  this.state = {
   studentName: "".
   gender: "",
   state: ""
  this.onChangeHandler = this.onChangeHandler.bind(this);
 onChangeHandler(e) {
 this.setState({
   [e.target.name]: e.target.value
 });
```

```
render() {
 return (
  <div>
   <h3>Form</h3>
  <form>
 Name: <input type="text" name="studentName" placeholder="Name"
onChange={this.onChangeHandler}/>
      <br/>
 Gender: Male <input type="radio" name="gender" value="male"
     checked={this.state.gender === "male"} onChange={this.onChangeHandler} />
     Female <input type="radio" name="gender" value="female"
     checked={this.state.gender === "female"} onChange={this.onChangeHandler} />
      <br/>
 State: <select name="state" value={this.state.state} onChange={this.onChangeHandler}>
       <option value="">Select</option>
       <option value="Ahmedabad">Ahmedabad</option>
       <option value="Maharashtra">Maharashtra</option>
      <option value="Madhya Pradesh">Madhya Pradesh</option>
      </select>
  </form>
   <hr />
 State of Component
    <[ISON.stringify(this.state, null, 2)]</pre>
   </div>
export default App;
```





Task

- Create basic c programs in React with State and HTML Controls.
- Take a Values from HTML Control and Use State Concept.
- Example:
 - No is Even or Odd.
 - Year is Leap Year or not.
 - Marksheet program
 - Mini Calculator 2 textbox with 4 Button + * /



What are the differences between props and state?

- Props are used to pass data(Between Component), whereas state is for managing data (Inside Component)
- State data can be modified by its own component, but is private (cannot be accessed from outside)
- Modifying state should happen with the setState () method
- Props can only be passed from parent component to child (unidirectional flow)
- Components receive data from outside with props, whereas they can create and manage their own data with state
- Data from props is read-only, and cannot be modified by a component that is receiving it from outside





Get Exclusive Video Tutorials



www.aptutorials.com
https://www.youtube.com/user/Akashtips











Get More Details

www.akashsir.com



If You Liked It! Rating Us Now



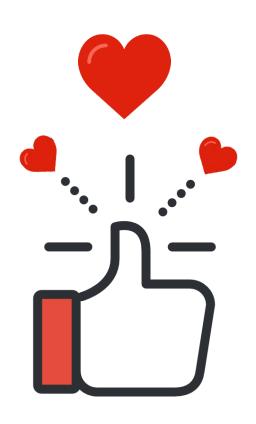
Just Dial

https://www.justdial.com/Ahmedabad/Akash-Technolabs-Navrangpura-Bus-Stop-Navrangpura/079PXX79-XX79-170615221520-S5C4 BZDET



Sulekha

https://www.sulekha.com/akash-technolabs-navrangpura-ahmedabadcontact-address/ahmedabad





Connect With Me



Akash Padhiyar #AkashSir

www.akashsir.com www.akashtechnolabs.com www.akashpadhiyar.com www.aptutorials.com

Social Info



Akash.padhiyar



Akashpadhiyar



Akash_padhiyar



+91 99786-21654



#Akashpadhiyar #aptutorials