REACT JS INTERNSHIP

TASK DAY-14

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**SIMPLE CALCULATOR- REACTJS**

**RESULT COMPONENT:**

import React, {Component} from 'react';

class ResultComponent extends Component {

render() {

let {result} = this.props;

return (

<div className="result">

<p>{result}</p>

</div>

) ;

}

}

export default ResultComponent;

**COMPONENT FOR KEYPAD BUTTONS:**

import React, {Component} from 'react';

class KeyPadComponent extends Component {

render() {

return (

<div className="button">

<button name="(" onClick={e => this.props.onClick(e.target.name)}>(</button>

<button name="CE" onClick={e => this.props.onClick(e.target.name)}>CE</button>

<button name=")" onClick={e => this.props.onClick(e.target.name)}>)</button>

<button name="C" onClick={e => this.props.onClick(e.target.name)}>C</button><br/>

<button name="1" onClick={e => this.props.onClick(e.target.name)}>1</button>

<button name="2" onClick={e => this.props.onClick(e.target.name)}>2</button>

<button name="3" onClick={e => this.props.onClick(e.target.name)}>3</button>

<button name="+" onClick={e => this.props.onClick(e.target.name)}>+</button><br/>

<button name="4" onClick={e => this.props.onClick(e.target.name)}>4</button>

<button name="5" onClick={e => this.props.onClick(e.target.name)}>5</button>

<button name="6" onClick={e => this.props.onClick(e.target.name)}>6</button>

<button name="-" onClick={e => this.props.onClick(e.target.name)}>-</button><br/>

<button name="7" onClick={e => this.props.onClick(e.target.name)}>7</button>

<button name="8" onClick={e => this.props.onClick(e.target.name)}>8</button>

<button name="9" onClick={e => this.props.onClick(e.target.name)}>9</button>

<button name="\*" onClick={e => this.props.onClick(e.target.name)}>x</button><br/>

<button name="." onClick={e => this.props.onClick(e.target.name)}>.</button>

<button name="0" onClick={e => this.props.onClick(e.target.name)}>0</button>

<button name="=" onClick={e => this.props.onClick(e.target.name)}>=</button>

<button name="/" onClick={e => this.props.onClick(e.target.name)}>÷</button><br/>

</div>

);

}

}

export default KeyPadComponent;

**MANIPULATING THE DISPLAY:**

import React, { Component } from 'react';

import './App.css';

import ResultComponent from './components/ResultComponent';

import KeyPadComponent from "./components/KeyPadComponent";

class App extends Component {

constructor(){

super();

this.state = {

result: ""

}

}

render() {

return (

<div>

<div className="calculator-body">

<h1>Simple Calculator</h1>

<ResultComponent result={this.state.result}/>

<KeyPadComponent onClick={this.onClick}/>

</div>

</div>

);

}

}

export default App;

**FUNCTIONING:**

import React, { Component } from 'react';

import './App.css';

import ResultComponent from './components/ResultComponent';

import KeyPadComponent from "./components/KeyPadComponent";

class App extends Component {

constructor(){

super();

this.state = {

result: ""

}

}

calculate = () => {

try {

this.setState({

// eslint-disable-next-line

result: (eval(this.state.result) || "" ) + ""

})

} catch (e) {

this.setState({

result: "error"

})

}

};

reset = () => {

this.setState({

result: ""

})

};

backspace = () => {

this.setState({

result: this.state.result.slice(0, -1)

})

};

render() {

return (

<div>

<div className="calculator-body">

<h1>Simple Calculator</h1>

<ResultComponent result={this.state.result}/>

<KeyPadComponent onClick={this.onClick}/>

</div>

</div>

);

}

}

export default App;

**ONCLICK FUNCTIONALITY:**

import React, { Component } from 'react';

import './App.css';

import ResultComponent from './components/ResultComponent';

import KeyPadComponent from "./components/KeyPadComponent";

class App extends Component {

constructor(){

super();

this.state = {

result: ""

}

}

onClick = button => {

if(button === "="){

this.calculate()

}

else if(button === "C"){

this.reset()

}

else if(button === "CE"){

this.backspace()

}

else {

this.setState({

result: this.state.result + button

})

}

};

calculate = () => {

try {

this.setState({

// eslint-disable-next-line

result: (eval(this.state.result) || "" ) + ""

})

} catch (e) {

this.setState({

result: "error"

})

}

};

reset = () => {

this.setState({

result: ""

})

};

backspace = () => {

this.setState({

result: this.state.result.slice(0, -1)

})

};

render() {

return (

<div>

<div className="calculator-body">

<h1>Simple Calculator</h1>

<ResultComponent result={this.state.result}/>

<KeyPadComponent onClick={this.onClick}/>

</div>

</div>

);

}

}

export default App;

**CSS:**

|  |
| --- |
| .result { |
|  | height: 60px; |
|  | background-color: #bbb; |
|  | width: 100%; |
|  | } |
|  |  |
|  | .result p { |
|  | font-size: 40px; |
|  | margin: 5px; |
|  |  |
|  | } |
|  |  |
|  | .calculator-body { |
|  | max-width: 400px; |
|  | margin: auto; |
|  | } |
|  |  |
|  | .button { |
|  | display: block; |
|  | background-color: #bbb; |
|  | } |
|  |  |
|  | button { |
|  | width: 25%; |
|  | height: 60px; |
|  | font-size: 30px; |
|  | } |