# ASSIGNMENT – 6A

**AIM :-** Write a Program to implement concept of Props and States

**Code:-**

**CODE-1 :-**

**App.js**

```
import React from 'react';
import './App.css';
import DateTime from './DateTime';

function App() {
  const date_time = new Date().toLocaleString();

  return (
    <div className='container'>
      <div className='greet'>
          <p>React Wecomes You!!</p>
          <p>See The Date and Time below....</p>
      </div>
      <div className='data'>
          <DateTime data={date_time}/>
      </div>
    </div>
  );
}


export default App;
```

**DateTime.js**

```
import React from 'react';

function DateTime(props){
    return(
        <div className='info'>
            <p>Date and Time : {props.data}</p>
```

```
        </div>
    )
}

export default DateTime;
```

## App.css

```css
.App {
  text-align: center;
}

.App-header {
  background-color: #282c34;
  min-height: 100vh;
  display: flex;
  flex-direction: column;
  align-items: center;
  justify-content: center;
  font-size: calc(10px + 2vmin);
  color: white;
}

.greet{
  height: 100px;
  width: 250px;
  align-content: center;
  background-color: aqua;
  border: 5px solid black;
  border-radius: 4px;
  font-weight: bold;
  padding: 10px;
}

.data{
  height: 100px;
  width: 250px;
  align-content: center;
  background-color: coral;
  border: 5px solid black;
  border-radius: 4px;
  font-weight: bold;
  text-align: center;
  padding-left: 15px;
}
```

```css
.container{
  display: flex;
  flex-direction: column;
  height: 100vh;
  width: 100vw;
  background-color: rgb(125, 119, 119);
  justify-content: center;
  align-items: center;
  /* padding-left: 40%; */
}


#root{
  background-color: black;
}
```

## Code 2 –

### App.css

```jsx
import React from 'react';
import './App.css';
import ColorChange from './ColorChanger'

function App() {
  return (
    <>
    <ColorChange />
    </>
  )
}


export default App;
```

### ColorChange.css

```jsx
import React from 'react';

class ColorChange extends React.Component{
    constructor(){
        super();
        this.state = ({ backgroundColor: '#ff4200' });
    }
```

```
    //let background;
    changeColor(){
        const randomval = '#' + Math.floor(Math.random()*167815).toString(16);
        this.setState({
            backgroundColor : randomval
        })
    }

    render(){
        const {backgroundColor}  = this.state;
        return(
            <div style={{background : backgroundColor, border: '5px solid
black', padding:'10px', margin:'140px', borderRadius: '5px'}}>
                <p style={{fontWeight :'bolder'}}>Color Changer Game</p>
                <button style={{fontWeight:'bold', borderRadius:'3px'}}
onClick={()=>this.changeColor()}>Change Color</button>
            </div>
        )
    }
}

export default ColorChange;
```
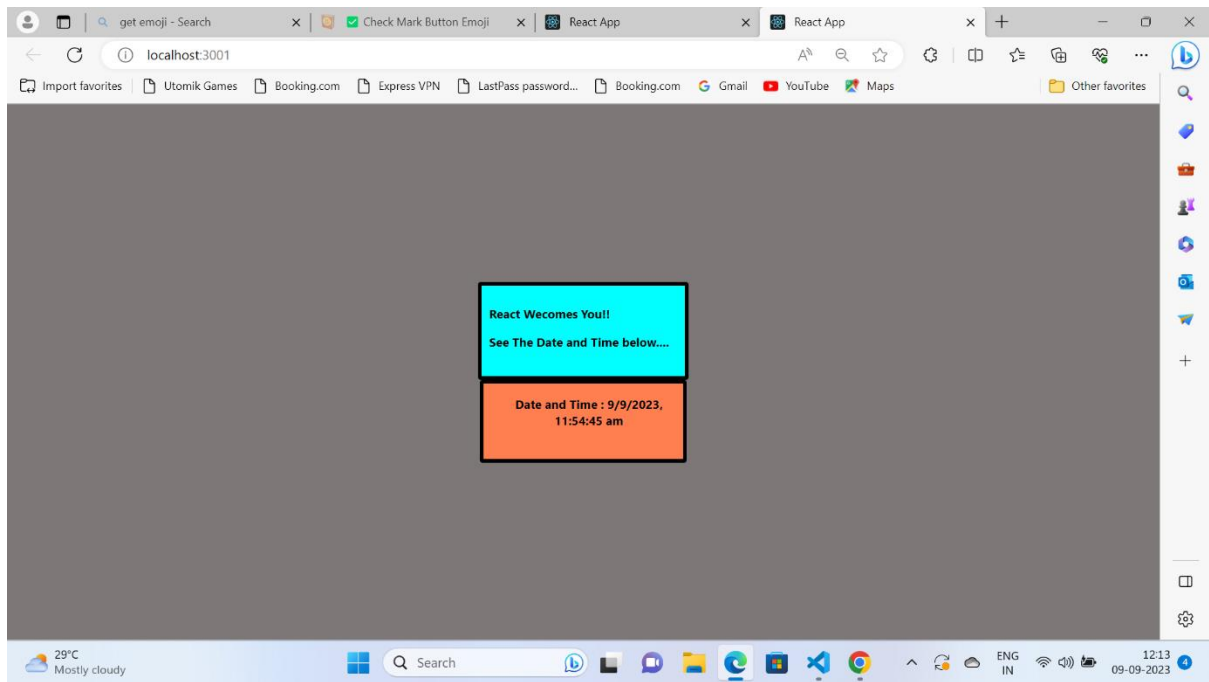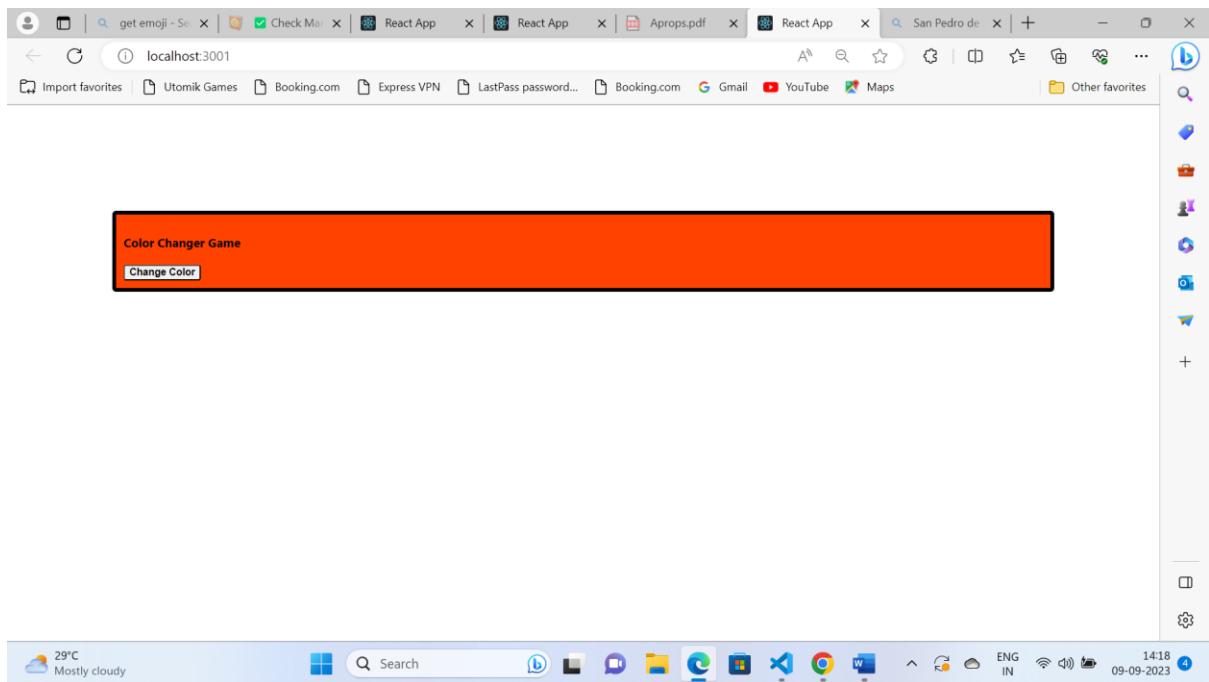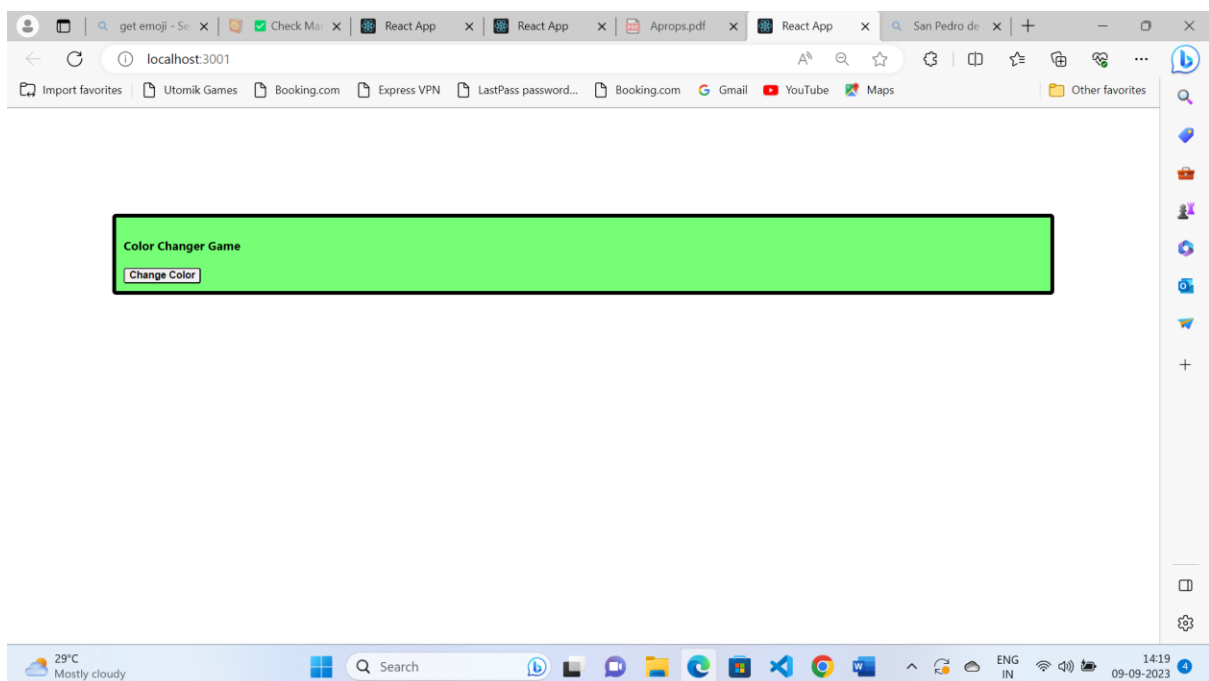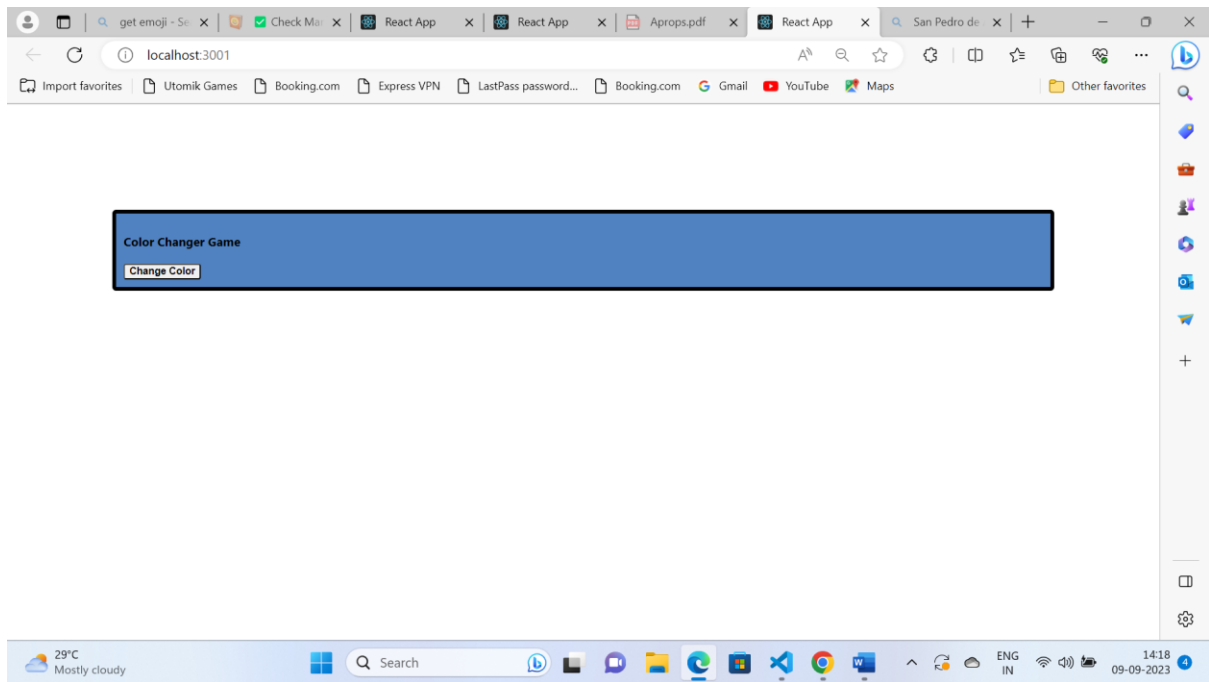
**Screen Shot:-**

**Output 1 –**

## Output 2 –

## Conclusion :-

We have successfully implemented the concept of **Props** and **State** in react. In above programs we have used **Props** in **functional component** which is actually a **read only value** and cannot be used to update the page on render, while on the other hand we have used the **State** using **class component** for updating the page content.