, ,	Batch - T22 Page No. Date
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	Assignment-08
	Aim - To wolte a Plogram to Emplement State & Peops in React
	Theory - React has a broit-in property in object alled state which allows component to create and manage their own data. So unlike peops components cannot pass data with state but they can create and manage it internally. State should not be modified directly but can be modified with a special to method called setstate. A change in the state inappens based on the gassing a crent or a user input. Also the data in the State is not be changes. React gets informed in the state changes. React gets informed in mediately re-renders the Dom - not the world above Dom but only the components with poon - not the changes of the state.
	they are used to pass data between React Components. React's data flow components &
	some data bloom the parante a site of the
	uni-directional. Firstly we need to define some data from the parents component and assign it to divid components peop
	atterbote.

Difference between State and Peops

· Components receive data from outside with

props, whereas they can create and manage their

oun data with State

· Props are used to pass data whereas state vsed to manage data.
Peops can only be passed from parent . State can le modified by êts own compaint Conclusion - The concept of State and Props was orderstood and desured of was Obtained during lab

Program

WAP to implement the concept of props and state

Steps:

Create a react app using command:

npx create-react-app myproject cd myproject To run the project type command: npm start

You will see a file "App.js" you can save this program in this file.

```
1. import React, { useState } from "react";
2. import "./App.css";
3. import Date1 from "./components/Date1";
function App()
5. { const [number, setNumber] = useState(0);
6. const move = () => {
       if (number === 4 ) {
8.
         setNumber(0);
9.
       } else {
10.
         setNumber(number + 1);
11.
12. };
13. return (
14.
      <div className="App">
15.
           <Date1    time = { new Date().toLocaleString()} />
16.
         <button id="btn" class="button1" onClick={move}>
17.
           Tap Here!
18.
         </button>
19.
         <div className="main">
20.
          <div
21.
             className="box"
22.
             style={
23.
               number === 1
24.
                 ? { backgroundColor: "blue" }
25.
                 : { backgroundColor: "white" }
26.
27.
           ></div>
28.
29.
             className="box"
30.
             style={
31.
               number === 2
32.
                 ? { backgroundColor: "black" }
                 : { backgroundColor: "white" }
33.
34.
```

```
35.
           ></div>
36.
37.
             className="box"
38.
             style={
39.
               number === 3
40.
                 ? { backgroundColor: "orange"}
41.
                : { backgroundColor: "white" }
42.
43.
           ></div>
44.
           <div
45.
             className="box"
46.
             style={
47.
               number === 4
48.
                 ? { backgroundColor: "pink"}
49.
                 : { backgroundColor: "white" }
50.
51.
           ></div>
52.
         </div>
53.
       </div>
                );}
54.export default App;
```

There will be a "App.css" file in src append this code in this file.

```
    box{
    background-color: lightgrey;
    width: 500px;
    border: 2px solid rgb(114, 99, 119);
    padding: 30px;
    margin: 30px;
    }
```

Now create a components folder in src then create a file "Date1.js" in this directory. Save this program in Date1.js

Output:

Intial o/p after typing npm start in command line.

	Date is: 9/18/2021, 8:02:15 PM.
	Tap Here!
clicking button "Tap Here!"	once we see the color change in 1 box
clicking button "Tap Here!"	once we see the color change in 1 box
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clicking button "Tap Here!"	Date is: 9/18/2021, 8:04:26 PM
	Date is: 9/18/2021, 8:04:26 PM Tap Herel
	Tap Herel twice we see the color change in 2 box
	Date is: 9/18/2021, 8:04:26 PM Tap Herel
	Tap Herel twice we see the color change in 2 box Date is: 9/18/2021, 8:05:06 PM.
	Tap Herel twice we see the color change in 2 box Date is: 9/18/2021, 8:05:06 PM.

				Date is: 9/18/202	
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On clicking b	utton "Tap H	ere!" fourth	time we see	the color chang	e in 4 box
				Date is: 9/18/2021	8:06:43 PM.
				Tap Here	el l