**Practical No. 08**

**Create an application to implement class and functional component in ReactJS**

There are two types of custom component: **class-based** and **functional.**

**Class Component:**

lass-based components used to be the most popular way of creating React components.

But with the introduction of React Hooks, many developers and libraries are shifting to using functional components.

Though functional components are now the norm, you will often find class components in legacy code.

You don’t need to use them, but you do need to know how to recognize them.

They also give a clear introduction to many future concepts, such as state management.

**create a new file. By convention, component files are capitalized:**

**/src/Instructions.js**

import React, {Component} from 'react';

export default class Instructions extends Component{

render(){

    return(

<p>Click On an emoji to view the emoji short name. </p>

    )

}

}

Save and close the file. At this point, there’s still no change to your browser.

That’s because you haven’t used the new component yet.

To use the component, you’ll have to add it into another component that connects to

the root component.

In this project, <App> is the root component in index.js. To make it appear in your application, you’ll need to add to the <App> component.

Open src/App.js and add these 2 lines

import Instructions from './Instructions';

export default Instructions;(at end)

Now make changes in**App.css**

.container{

display : flex;

flex-direction: column

align-items: center;

}

**Instructions.js**

import React, {Component} from 'react';

import './App.css';

export default class Instructions extends Component{

render(){

    return(

        <div className='container'>

           <h1>WELCOME TO SSCMR</h1>

           <h2>It is MCA's WTLab</h2>

           <p>This is the demo for Class  Component</p>

           <img src="./image/p1.jpg"></img>

        </div>

    )

}

}

Create one folder as **‘image’** in current project in **public** folder> paste the image p1.jpg

**Functional Component:**

**The App.js file is a functional component,**

**App.js**

Without **click event**

import './App.css';

function App() {

  return (

    <div className='container'>

      <h1>Welcome to SSCMR</h1>

      <p>Let's Party</p>

      <ul>

        <li>

          <button><span role='img' aria-label='grinning face' id="grinning face"></span>😀  </button>

        </li>

        <li>

          <button>

          <span role='img' aria-label='party popper' id='party popper'>🎉 </span>

          </button>

        </li>

        <li><button>

          <span role='img' aria-label='woman dancing' id='woman pouting'>🙎‍♀️</span>

          </button></li>

      </ul>

    </div>

      );

}

export default App;

**App.css**

.container{

  display: flex;

flex-direction: column;

align-items: center;

}

button{

font-size: 2em;

border: 0;

padding: 0;

background: none;

cursor: pointer;

}

ul{

display: flex;

padding: 0;

}

li{

margin: 20px;

list-style: none;

padding: 0;

}

**With Click event**

import './App.css';

function App() {

  const emojifn =event=>alert(event.target.id);

  return (

    <div className='container'>

      <h1>Welcome to SSCMR</h1>

      <p>Let's Party</p>

      <ul>

      <li>

          <button onClick={emojifn}>

          <span role='img' aria-label='grinning face' id='grinning face'>😀  </span>

          </button>

        </li>

        <li>

          <button onClick={emojifn}>

          <span role='img' aria-label='party popper' id='party popper'>🎉 </span>

          </button>

        </li>

        <li><button onClick={emojifn}>

          <span role='img' aria-label='woman dancing' id='woman pouting'>🙎‍♀️</span>

          </button></li>

      </ul>

    </div>

      );

}

export default App;

**App.css**

.container{

  display: flex;

flex-direction: column;

align-items: center;

}

button{

font-size: 2em;

border: 0;

padding: 0;

background: none;

cursor: pointer;

}

ul{

display: flex;

padding: 0;

}

li{

margin: 20px;

list-style: none;

padding: 0;

}