**First React App date 20 mar 2019**

**Question:**

**i) Create a layout containing Header,Main,Aside and Footer Component.**

**ii) Create a Button in Main Component.**

**iii) On Click of the button in Main Component every time, change the counter in the Header Component.**

**Solution:**

**Index.html**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="utf-8" />

<link rel="shortcut icon" href="%PUBLIC\_URL%/favicon.ico" />

<meta

name="viewport"

content="width=device-width, initial-scale=1, shrink-to-fit=no"

/>

<meta name="theme-color" content="#000000" />

<link rel="manifest" href="%PUBLIC\_URL%/manifest.json" />

<title>React App</title>

</head>

<body>

<noscript>You need to enable JavaScript to run this app.</noscript>

<div id="root"></div>

</body>

</html>

**App.css**

.app {

width: 100%;

font-size: 40px;

color: #fff;

}

header {

background-color: #003;

height: 100px;

width: 100%;

display: flex;

align-items: center;

justify-content: center;

}

section {

background-color: goldenrod;

height: 400px;

width: 100%;

display: flex;

align-items: center;

justify-content: center;

}

footer{

background-color: aquamarine;

height: 100px;

width: 100%;

display: flex;

align-items: center;

justify-content: center;

}

button {

background-color: blueviolet;

color: #fff;

padding: 20px 20px;

border: 0;

border-radius: 10px;

font-size: 20px;

outline: none;

cursor: pointer;

}

button:hover{

background-color: #4f1c8a;

}

.main{

display: flex;

}

aside{

background-color: coral;

width: 30%;

display: flex;

justify-content: center;

align-items: center;

}

.counter-area {

background-color: #fff;

color: #003;

margin-left: 50px;

padding: 10px 50px;

border-radius: 10px;

}

**App.js**

import React, { Component } from 'react';

import './App.css';

import Header from './component/Header';

import Main from './component/Main';

import Footer from './component/Footer';

class App extends Component {

state = {

counter : 0

}

counterVal = () =>{

this.state.counter++;

this.setState({

counter : this.state.counter

})

}

render() {

return (

<div className='app'>

<Header num={this.state.counter}/>

<Main fun={this.counterVal}/>

<Footer/>

</div>

);

}

}

export default App;

**Header.js**

import React, {Component} from 'react';

import '../App.css'

class Header extends Component {

render(){

return(

<header>Header <span className='counter-area'>{this.props.num}</span> </header>

);

}

}

export default Header;

**Main.js**

import React, {Component} from 'react';

import '../App.css';

class Main extends Component{

render(){

return(

<div className='main'>

<aside>Aside</aside>

<section><button onClick={this.props.fun}>Counter</button></section>

</div>

)

}

}

export default Main;

**Footer.js**

import React, {Component} from 'react';

import '../App.css';

class Footer extends Component{

render() {

return(

<footer>Footer</footer>

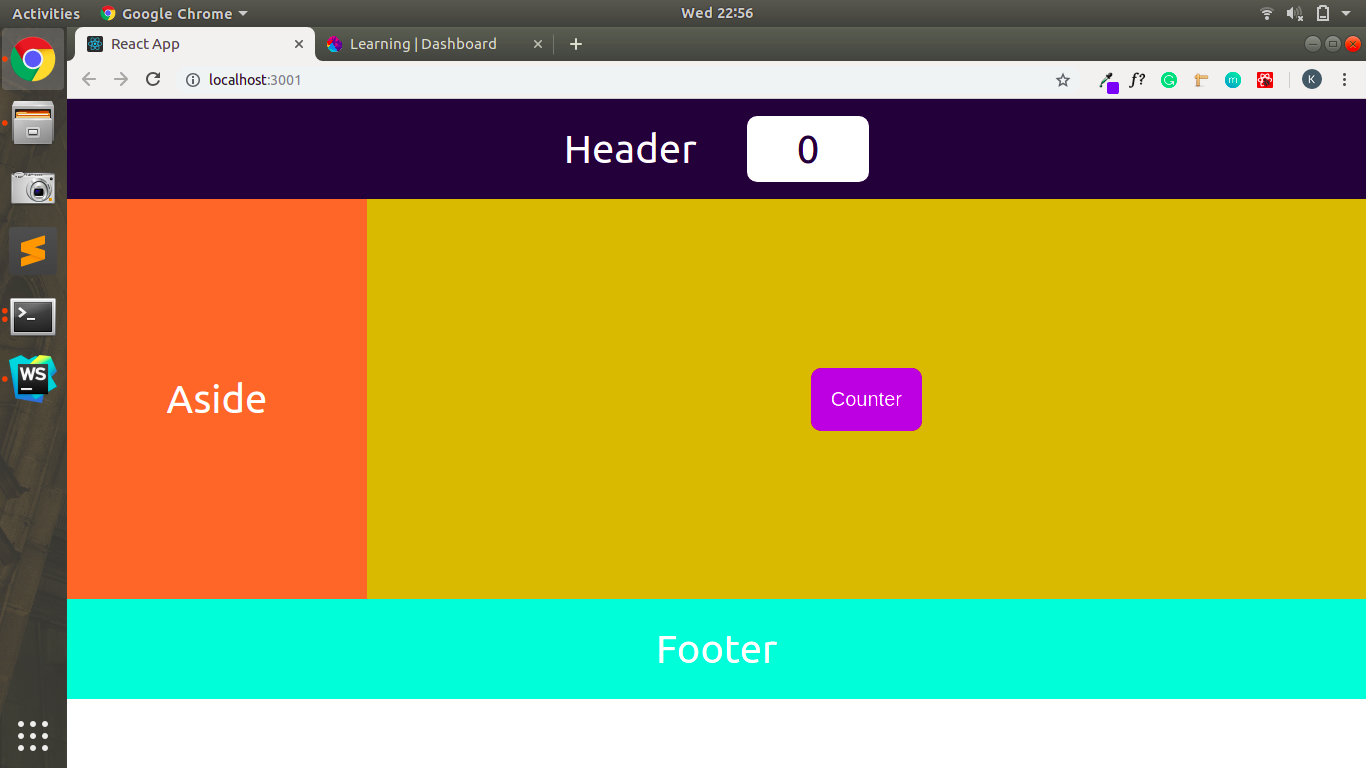
)

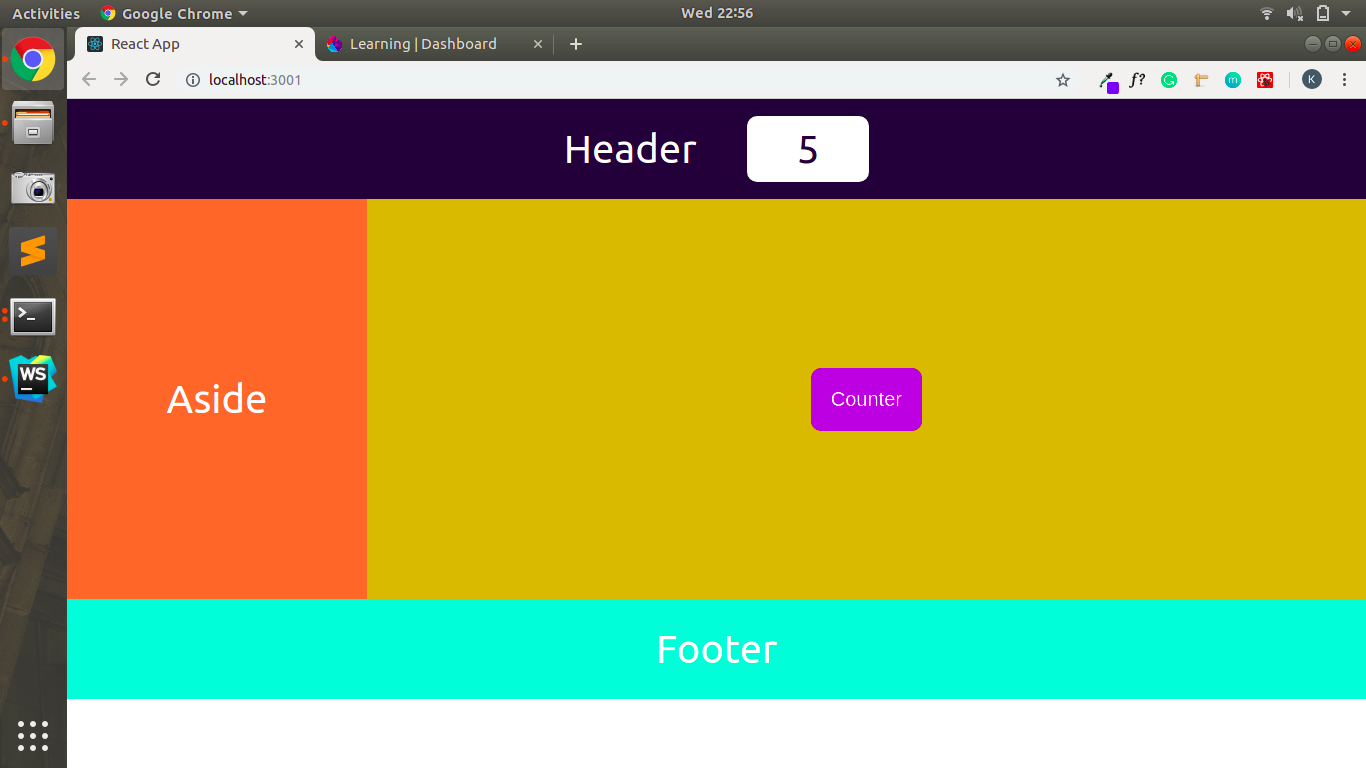
}

}

export default Footer;

**Output:**

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