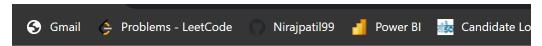
Assignment 14

TVM-DAC-Niraj Patil

Q1. Write a react js program to display the greeting 'Hello {name}, Welcome to {place}' using React.Fragment.(Hint: Hello Abhijith, Welcome to Chembur).

output:



Hello Abhijith,

Welcome to Chembur

Q2. Write a React js program to display elements in a table.

Name Address

Dhoni Ranchi

```
import React from 'react';
function Table(props) {
 return (
  <thead>
    Name
     Address
     </thead>
   {props.data.map((item, index) => (
      {item.name}
       {item.Address}
      ))}
   );
export default Table;
```

```
import logo from './logo.svg';
import './App.css';
import React, {useState} from 'react';
import Welcome from './componants/Welcome';
import ClassDemo from './componants/ClassDemo';
import Greeting from './componants/Greeting';
import Table from './componants/Table';
function App() {
 const data = [
   { name: 'Dhoni', Address: 'Ranchi' },
   { name: 'kolhi', Address:'Delhi' },
   { name: 'jadeja', Address:'Gujarat' },
  ];
  return (
    <div className="App">
   <h1>Table Example</h1>
```

output:

Table Example

Name Address

Dhoni Ranchi kolhi Delhi jadeja Gujarat

Q3. Create a react application to display the message "I am Santhosh. I teach at Indore." using the props keyword.

```
import logo from './logo.svg';
import React from 'react';
import './App.css';
import TeacherInfo from './componants/TecherInfo';
function App() {
```

output:

I am Santhosh. I teach at Indore.

Q4. Write a React js program to demonstrate how data can be modified using a class component. On the click of a button, the message 'Thank you for using my React application.' must be displayed.

```
import React, { Component } from 'react';
class MessageModifier extends Component {
 constructor(props) {
   super(props);
   this.state = {
      message: 'Click the button to modify the message.',
    };
 modifyMessage = () => {
    this.setState({
      message: 'Thank you for using my React application.',
   });
  };
  render() {
   return (
      <div>
        <h1>{this.state.message}</h1>
        <button onClick={this.modifyMessage}>Modify Message</putton>
      </div>
    );
```

Welcome to My React App Click the button to modify the message.

Modify Message

Welcome to My React App Thank you for using my React application.

Modify Message

Q5. Design a React application to calculate the BMI of human beings. If the BMI<18, the output message should be displayed as 'underweight', if BMI is between 18 and 25, the output message should be displayed as 'Normal', if weight is between 25 and 39, the output must be displayed as 'overweight' and if bmi>39, the output must be displayed as 'overweight.' Handle the exception of alphanumeric inputs.

```
import React, { useState } from 'react';

const BMICalculator = () => {
  const [weight, setWeight] = useState('');
  const [height, setHeight] = useState('');
  const [bmi, setBMI] = useState(null);
  const [result, setResult] = useState('');

const calculateBMI = () => {
   try {
    const weightValue = parseFloat(weight);
    const heightValue = parseFloat(height);
   if (isNaN(weightValue) || isNaN(heightValue)) {
```

```
throw new Error('Please enter valid numeric values for weight and
height.');
      const bmiValue = weightValue / ((heightValue / 100) * (heightValue /
100));
      setBMI(bmiValue.toFixed(2));
      if (bmiValue < 18) {</pre>
        setResult('Underweight');
      } else if (bmiValue >= 18 && bmiValue <= 25) {</pre>
        setResult('Normal');
      } else if (bmiValue > 25 && bmiValue <= 39) {
        setResult('Overweight');
      } else {
        setResult('Obese');
   } catch (error) {
      setResult('Error: ' + error.message);
  };
  return (
    <div>
      <h2>BMI Calculator</h2>
      <div>
        <label>Weight (kg):</label>
        <input type="text" value={weight} onChange={(e) =>
setWeight(e.target.value)} />
      </div>
      <div>
        <label>Height (cm):</label>
        <input type="text" value={height} onChange={(e) =>
setHeight(e.target.value)} />
      </div>
      <button onClick={calculateBMI}>Calculate BMI</button>
      {bmi !== null && (
        <div>
          Your BMI: {bmi}
          Result: {result}
        </div>
      )}
    </div>
  );
};
export default BMICalculator;
```

BMI Calculator

Weight (kg):	50	
Height (cm):	175	
	Calculate BMI	

Your BMI: 16.33

Result: Underweight

Q6.

```
import React, { useState } from 'react';
import ScoreDisplay from './ScoreDisplay';
import ScoreButtons from './ScoreButtons';
const ScoreCalculator = () => {
  const [score, setScore] = useState(0);
  const incrementScore = () => {
    setScore(score + 1);
  };
  const decrementScore = () => {
    setScore(score - 1);
  };
  return (
      <h2>Score Calculator App</h2>
      <ScoreDisplay score={score} />
      <ScoreButtons onIncrement={incrementScore} onDecrement={decrementScore}</pre>
    </div>
```

Output:

Score Calculator App

Current Score: 8

