Program 5:
Create   task List in React
                   a.Create List of task in react using state
                   b. Style the elements using css
                   C. Add task in above list
                   D. Delete Task

Note: this program is part of user input topic Module-3 and 4 concepts

```css
//create css

li {
   color: darkblue;
   margin: 5px;
   list-style-type: none;
}
.myDiv {
   border: 5px outset red;
   background-color: lightblue;
   text-align: center;
 }
 .button1
 {
  border-radius: 50%;
  background-color: #04AA6D; /* Green */
  border: none;
  color: white;
  padding: 20px;
  text-align: center;
  text-decoration: none;
  display: inline-block;
  font-size: 16px;
  margin: 4px 2px;
  cursor: pointer;
}
.stock::before
{
 background-color: #4224ca;
 border: none;
 color: white;
 padding: 20px;
 text-align: center;
 text-decoration: none;
 display: inline-block;
```

```css
  font-size: 20px;
  margin: 4px 2px;
  content:"In Stock"
}
.unavilable::before
{
  background-color: #c2155a;
  border: none;
  color: white;
  padding: 20px;
  text-align: center;
  text-decoration: none;
  display: inline-block;
  font-size: 20px;
  margin: 4px 2px;
  content:"Un avilable";
}
```

//Edit App.js

```jsx
import './App.css';
import ListTask from './component/ListTask';
import Addtask from './component/Addtask';
import { useState } from "react";
function App()
{
  const[tasks,setTasks]=useState([]);
  return (
    <div>
        <Addtask tasks={tasks} setTasks={setTasks}/>
        <ListTask tasks={tasks} setTasks={setTasks}/>

    </div>
  );
}

export default App;
```

//create new file AddATsk.js

```jsx
import '../CSS/mystyle.css'
import { useState } from "react";
import React from 'react';
 const  Addtask=({tasks,setTasks})=>
{
    const [taskValue,setTaskValue]=useState("");
    const handleChange=(event)=>{
        setTaskValue(event.target.value);
    }
    const handleSubmit=(event)=>{
        event.preventDefault()
        //object task
        const task={
            id:Math.floor(Math.random()*10000),
            name:taskValue,
            completed:false
        }
        setTasks([...tasks,task]);
        console.log(task);
    }
    return(
            <form onSubmit={handleSubmit}>
                <label htmlfor="">Task Name:</label>
                <input type="text" name="task" id="task"
onChange={handleChange}/>
                <button className="button1" type="Submit"  >Add
Task</button>
            </form>
    );
}

export default Addtask
```

//create new file ListTask.js

```jsx
import '../CSS/mystyle.css'

const ListTask=({tasks,setTasks})=>
{


    function DeleteItem(id)
    {
            setTasks(tasks.filter(task=>id!==task.id));
    }
    return(
        <div className="myDiv">
                <h1>Task List</h1>

        <ul>
            {tasks.map((task)=>(
            <li key={task.id}>
                <span>{task.id}-{task.name}</span>
                <button onClick={()=>DeleteItem(task.id)}
className="button1">Del</button>

            </li>
            ))}
        </ul>
        </div>

    );
}
export default ListTask;
```

//create new file index.js

```jsx
import React from 'react';
import ReactDOM from 'react-dom/client';
```

```
import './index.css';
import App from './App';

const root = ReactDOM.createRoot(document.getElementById('root'));
root.render(
  <React.StrictMode>
    <App/>
  </React.StrictMode>
);
```

Program 6:

Create different links like Home,About US ,Contact me,Details using react-Router and Navlink

Solution:

Step 1:
Install React Router if you haven't already:
npm install react-router-dom

Step 2:
Create file RouterDemo.js

```
import React from 'react';
import { BrowserRouter as Router, Route, NavLink } from
'react-router-dom';
const RouterDemo = () => {
    return (
      <nav>
        <ul>
          <li><NavLink exact to="/">Home</NavLink></li>
          <li><NavLink to="/about">About Us</NavLink></li>
          <li><NavLink to="/contact">Contact Me</NavLink></li>
          <li><NavLink to="/details">Details</NavLink></li>
```

```
        </ul>
      </nav>
    );
  };
export default RouterDemo;
```

Step 3: Create your components for Home, About Us, Contact Me, and Details:

E.g:

Step4: Create App1.js

Program -7 . Create API using JSON Server and handle data on click event

Steps:

1. Create data.json

```
{
    "Fruits":[
        {
            "id":1,
            "name":"Apple",
            "price":500,
            "stock":true
        },
        {
            "id":2,
            "name":"Mango",
            "price":800,
            "stock":true

        },
```

```json
        {
            "id":3,
            "name":"Orange",
            "price":300,
            "stock":true
        },
        {
            "id":4,
            "name":"Apple",
            "price":500,
            "stock":true
        },
        {
            "id":5,
            "name":"Mango",
            "price":800,
            "stock":true

        },
        {
            "id":6,
            "name":"Orange",
            "price":300,
            "stock":true
        }

    ]

}
```

2. Create css to style

```css
li {
    color: darkblue;
    margin: 5px;
    list-style-type: none;
```

```css
}
.myDiv {
    border: 5px outset red;
    background-color: lightblue;
    text-align: center;
  }
  .button1
  {
    border-radius: 50%;
    background-color: #04AA6D; /* Green */
    border: none;
    color: white;
    padding: 20px;
    text-align: center;
    text-decoration: none;
    display: inline-block;
    font-size: 16px;
    margin: 4px 2px;
    cursor: pointer;
}
.stock::before
{
  background-color: #4224ca;
  border: none;
  color: white;
  padding: 20px;
  text-align: center;
  text-decoration: none;
  display: inline-block;
  font-size: 20px;
  margin: 4px 2px;
  content:"In Stock"
}
.unavilable::before
{
  background-color: #c2155a;
  border: none;
  color: white;
```

```css
    padding: 20px;
    text-align: center;
    text-decoration: none;
    display: inline-block;
    font-size: 20px;
    margin: 4px 2px;
    content:"Un avilable";
}
```

3. Use api to display data in html

```jsx
import '../CSS/mystyle.css'
import {useState,useEffect} from "react"
const ProductListt=()=>
{
    const [products,setProducts]=useState([]);
    const [url,setUrl]=useState("http://localhost:8900/Fruits");
    useEffect(()=>{
    fetch(url)
    .then(resposnse=>resposnse.json())
    .then(data=>setProducts(data));
    },[url]);
    return(
        <section>
        <button className='button1'
onClick={()=>setUrl("http://localhost:8900/Fruits")}>ALL</button>
        <button className="button1"
onClick={()=>setUrl("http://localhost:8900/Fruits?stock=true")}>I
nstock</button>


        {
        products.map((mydata)=>(//products is from array line 4
<div className='myDiv' key={mydata.id}>
    <p>{mydata.id}</p>
    <p>{mydata.name}</p>
```

```
        <p>{mydata.price}</p>
        <span
className={mydata.stock?"stock":"unavilable"}>{mydata.stock}</spa
n>
        </div>
    ))}
    </section>
    )//return closing
}
export default ProductListt;
```