UKA TARSADIA UNIVERSITY

BABU MADHAV INSTITUTE OF INFORMATION TECHNOLOGY

M.SC.(IT)

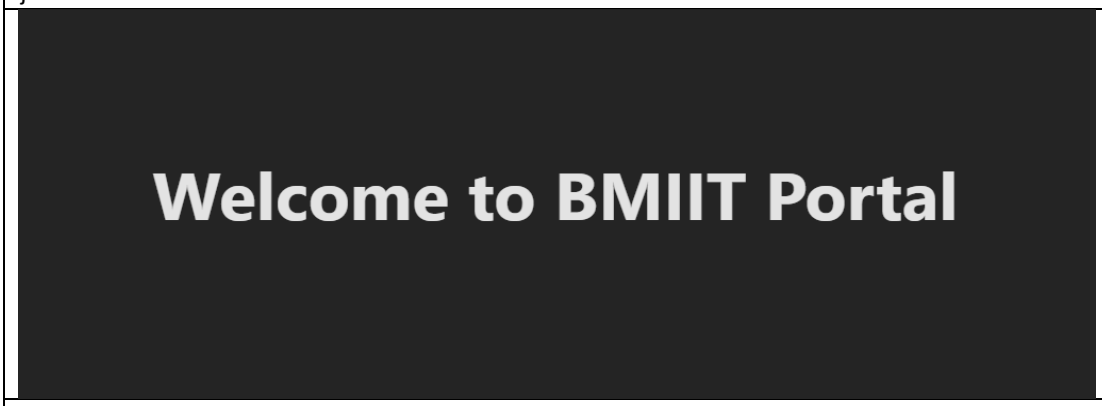
FULL STACK DEVELOPMENT

Practical List - 2

Name	Meet Patel
Enrollment No	202206100110050

1.

```
import React from 'react'

export default function Pr1() {
  return (
    <div>
      <h1>Welcome to BMIIT Portal</h1>
    </div>
  )
}
```



2.

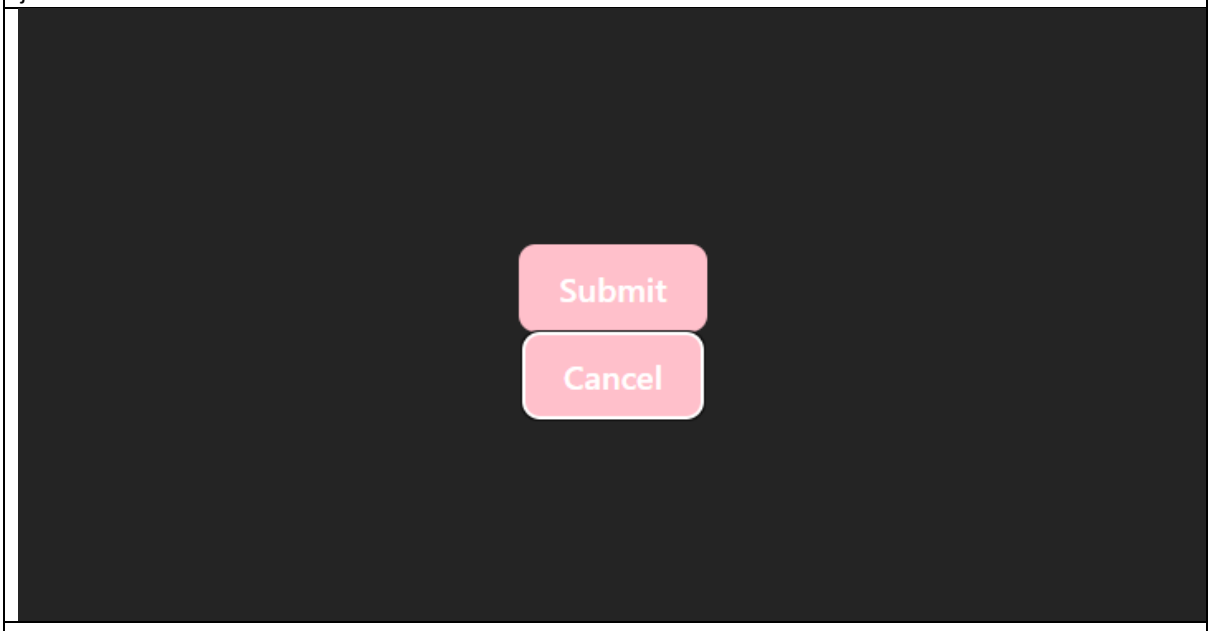
```
import React from 'react'
import Buttonpr3 from './Buttonpr3'

export default function Pr2() {

    let handle=()=>{
        var news = document.getElementById("demo");
        var par = document.getElementById("par");
        par.textContent ="Breaking News:"+news.value;
    }
  return (
    <>
        <input type="text" id="demo"/>
        <Buttonpr3 text="submit" color="blue" calculate={handle}/>
```

```
      <h1 id="par"></h1>
    </>
  )
}

import React from 'react'

export default function Button3(props) {
  return (
    <>
      <button style={{backgroundColor:props.color}}>{props.ptext}</button><br/>
      <button style={{backgroundColor:props.color}}>{props.ntext}</button>
    </>
  )
}
```

3.

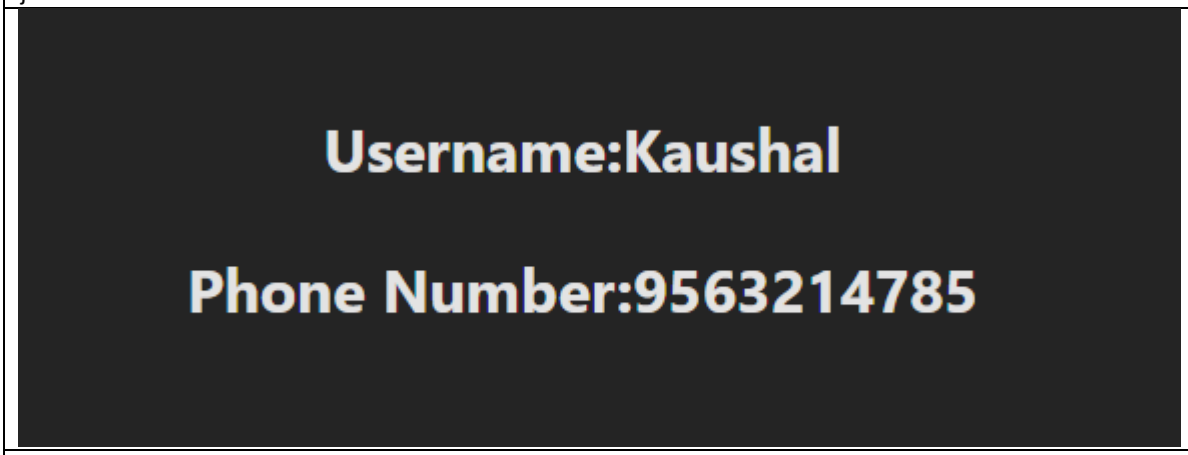
```
import React from 'react'
import Buttonpr3 from './Buttonpr3'

export default function Pr3() {
  return (
    <>
      <Buttonpr3 text="Submit" color="blue"/>
      <Buttonpr3 text="Cancel" color="red"/>
    </>
  )
}


import React from 'react'

export default function Button3(props) {
  return (
    <>
      <button style={{backgroundColor:props.color}}>{props.ptext}</button><br/>
      <button style={{backgroundColor:props.color}}>{props.ntext}</button>
```

```
    </>
  )
}
```



4.

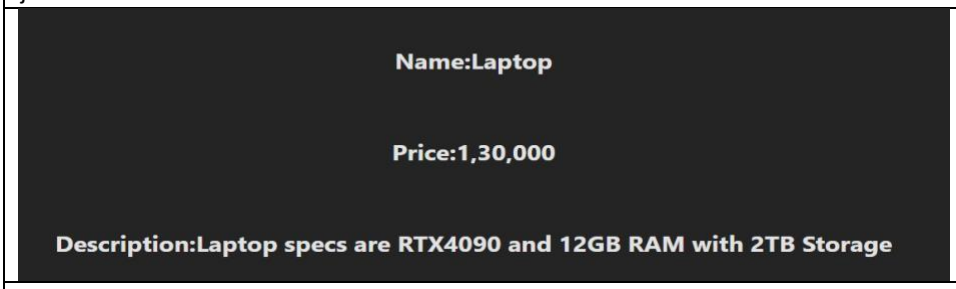
```
import React from 'react'

export default function Pr4(props) {
  return (
    <div>
      <h3>UserName:{props.username}</h3>
      <h3>Contact:{props.contact}</h3>
    </div>
  )
}
```



5.

```
import React from 'react'

export default function Pr5(props) {
  return (
    <div>
      <h1>Name:{props.name}</h1>
      <h2>Price:{props.price}</h2>
```

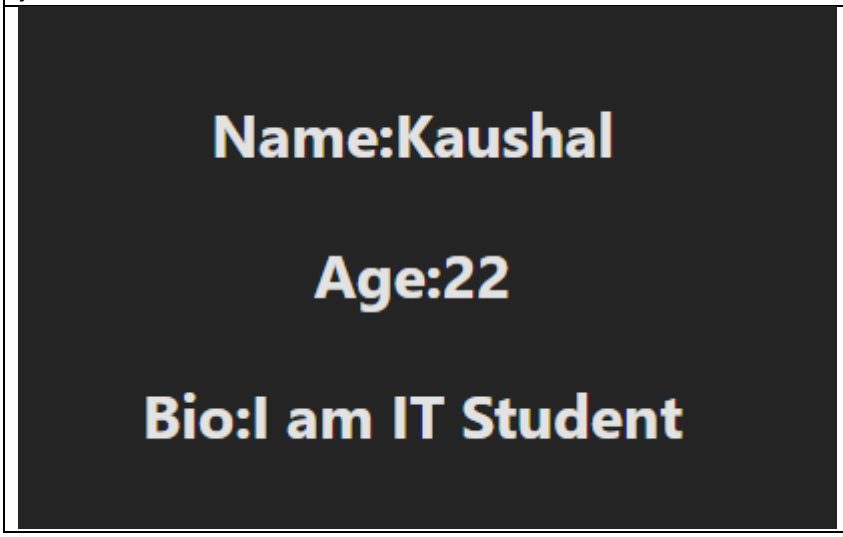
```
    <h3>Des:{props.des}</h3>
   </div>
  )
}
```



6.

```
import React from 'react'
import Profile from './Profile'

export default function Pr6(props) {
  return (
    <>
     <Profile name="Kaushal" age="22" bio="I am IT Student"/>
    </>
  )
}
```

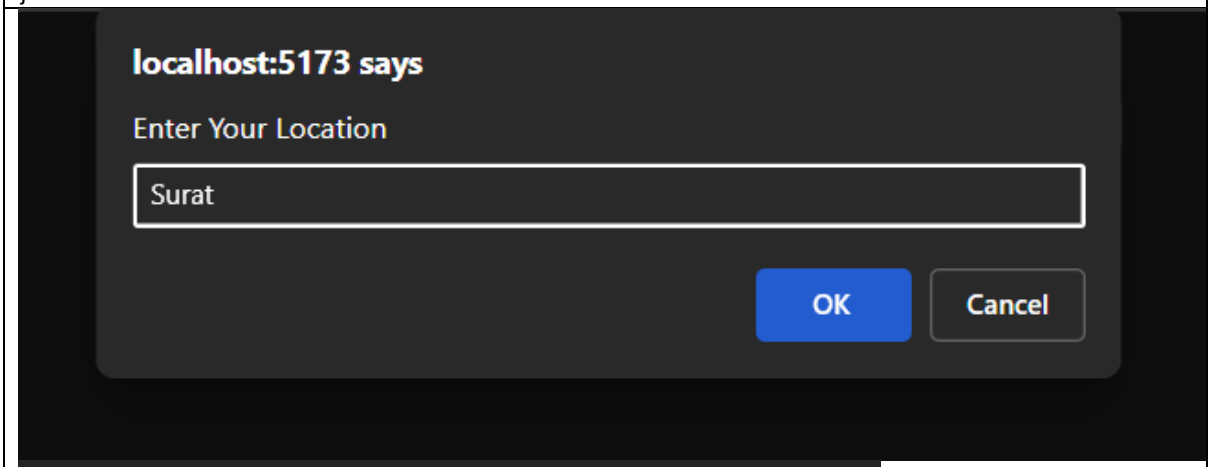
```
import React from 'react'

export default function Profile(props) {
 return (
   <>
      {props.name ? <h2>Name:{props.name}</h2> : ""}
      {props.age ? <h2>Age:{props.age}</h2>: ""}
      {props.bio ? <h2>Bio:{props.bio}</h2>: ""}
      {props.location ? <h2>Location:{props.location}</h2>: ""}
   </>
  )
}
```

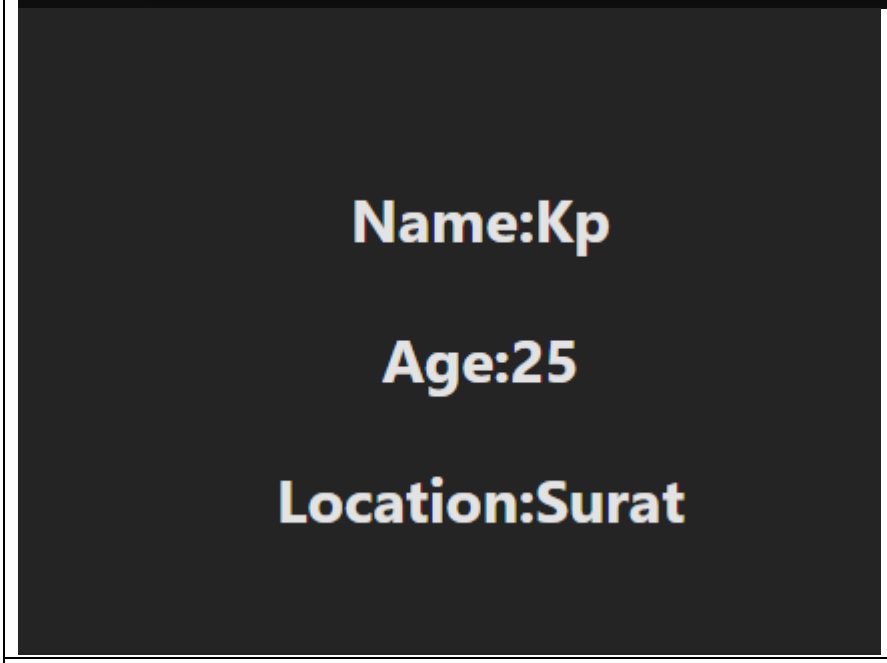


7.

```
import React, { useState } from 'react'
import Profile from '../Profile'

export default function Pr7() {
   const [inputName,setInputName]=useState("")
   const [inputAge,setInputAge]=useState("")
   const [inputLocation,setInputLocation]=useState("")
   const [pr,setP]=useState([])

   const handleName = (event) =>{
      setInputName(event.target.value)
   }

   const handleAge = (event) =>{
      setInputAge(event.target.value)
   }

   const handleLocation = (event) =>{
      setInputLocation(event.target.value)
   }

   const addValue=()=>{
      var temp=[...pr]
      temp.push(
         {
            id:pr.length+1,
            name:inputName,
            age:inputAge,
            location:inputLocation
         }
      )
      setP(temp)
      setInputName()
   }

  return (
   <>
      <div>
      <input type="text" placeholder="Name" onChange={handleName}/>
      <input type="text" placeholder="Age" onChange={handleAge}/>
      <input type="text" placeholder="Location" onChange={handleLocation}/>
      <button onClick={()=>{addValue()}}>Submit</button>
      <div id="demo">
         {
            pr.map((item)=>{
               return <Profile key={item.id} pro={item}/>
            })
         }
      </div>
   </div>
```

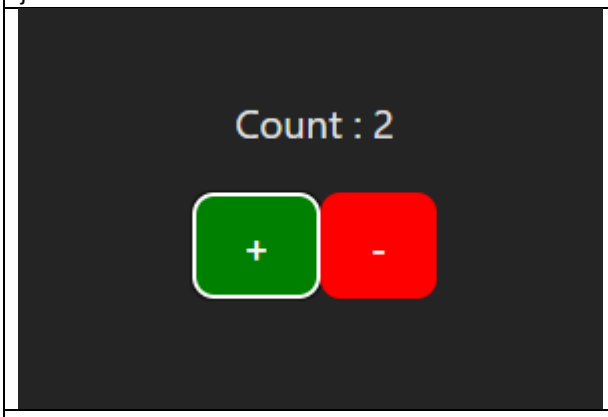
```
    </>
  )
}


import React from 'react'

export default function Profile(props) {
 return (
   <>
     {props.name ? <h2>Name:{props.name}</h2> : ""}
     {props.age ? <h2>Age:{props.age}</h2>: ""}
     {props.bio ? <h2>Bio:{props.bio}</h2>: ""}
     {props.location ? <h2>Location:{props.location}</h2>: ""}
   </>
  )
}
```





8.

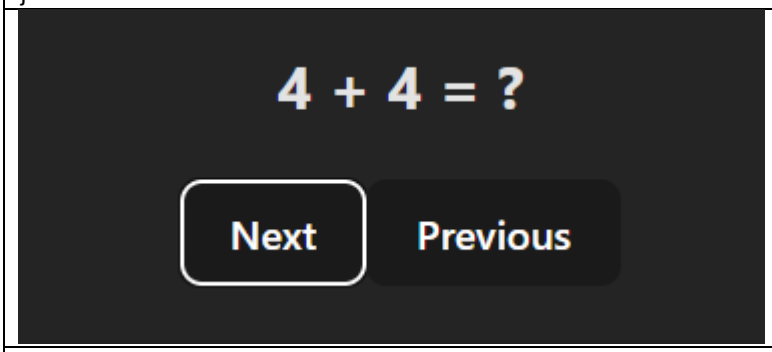
```
import React, { useState } from 'react'
import Button from './Button';

export default function Pr8() {
   const [count,setCount]=useState(0);

   const handleAdd = () => {
      setCount(count+1)
      // console.log(count)
   }

   const handleSub = () => {
      setCount(count-1)
   }
   console.log(count)
  return (
   <div>
      <button>Count:{count}</button><br />
      <Button text="+" color="blue" calculate={handleAdd}/>
      <Button text="-" color="red" calculate={handleSub}/>
   </div>
  )
}



import React from 'react';

export default function Button({ color, calculate, text }) {
   return (
      <button style={{ backgroundColor: color }} onClick={calculate}>
         {text}
      </button>
   );
}
```



9.

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

export default function Pr9() {
```

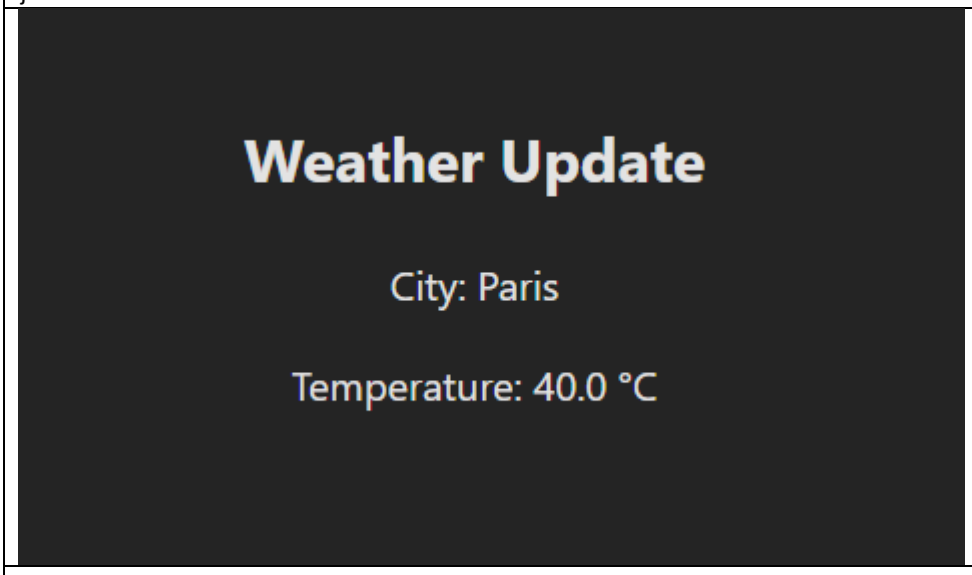
```
  var carA = Array("BMW","MG","KIA","TATA")
  const [index,setIndex] = useState(0)
  const handle = ()=>{
    // cur=cur+1
    // setCar(carA[cur])
    setIndex(index+1)
    if (index == carA.length-1){
      setIndex(0)
    }
  }

  const handlePre = ()=>{
    // cur=cur+1
    // setCar(carA[cur])
    setIndex(index-1)
    if (index<=0){
      setIndex(carA.length-1)
    }
  }

 return (
  <>
  <h1>{carA[index]}</h1>
   {/* <input type="text" value={carA[index]} readOnly/> */}
   <button onClick={handlePre}>Previous</button>
   <button onClick={handle}>Next</button>
  </>
 )
}
```



10.

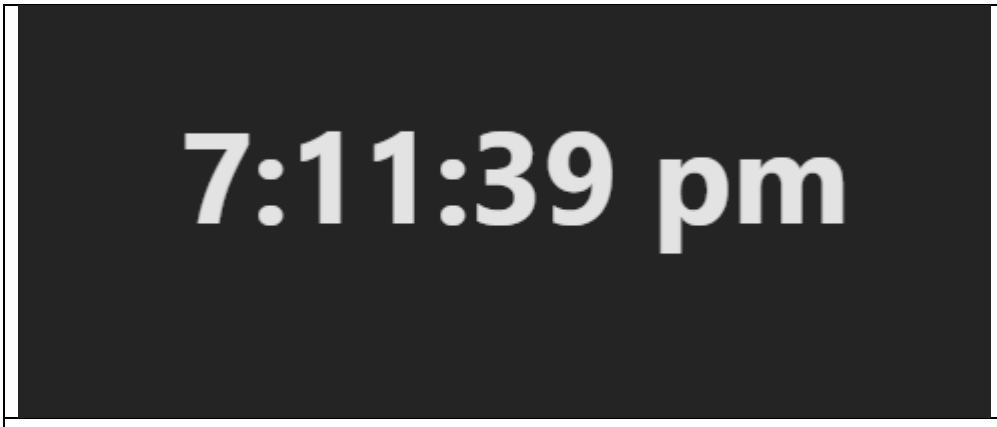
```
import React,{useState,useEffect} from 'react'

export default function Pr10() {
  const mockFetchWeather = () => {
    const cities = ['New York', 'London', 'Tokyo', 'Sydney', 'Paris'];
    const city = cities[Math.floor(Math.random() * cities.length)];
    const temperature = (Math.random() * 30 + 10).toFixed(1);
    return Promise.resolve({ city, temperature });
  };
    const [weather, setWeather] = useState({ city: '', temperature: '' });

    useEffect(() => {
```

```
        const fetchWeather = async () => {
          const data = await mockFetchWeather();
          setWeather(data);
        };

        fetchWeather();

        const intervalId = setInterval(fetchWeather, 1000);
        return () => clearInterval(intervalId);
      }, []);
  return (
    <>
      <h2>Weather Update</h2>
      <p>City: {weather.city}</p>
      <p>Temperature: {weather.temperature} °C</p>
    </>
  )
}
```



11.

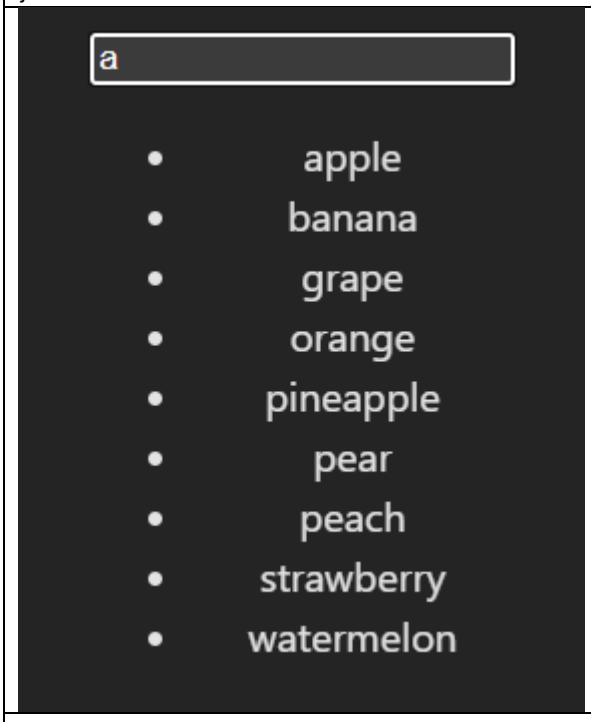
```
import React, { useEffect, useState } from 'react'

export default function Pr11() {
    const [time,setTime] = useState(new Date())
    useEffect(()=>{
        setInterval(()=>{
          setTime(new Date());
        },1000)
    },[])
  return (
    <>
      <h1>{time.toLocaleTimeString()}</h1>
    </>
  )
}
```



12.

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

const mockSuggestions = [
  "apple",
  "banana",
  "grape",
  "orange",
  "pineapple",
  "pear",
  "peach",
  "plum",
  "strawberry",
  "watermelon"
];

export default function Pr12() {
  const [query, setQuery] = useState('');
  const [suggestions, setSuggestions] = useState([]);

  useEffect(() => {
    if (!query) {
      setSuggestions([]);
      return;
    }

    const delayDebounceFn = setTimeout(() => {
      const filtered = mockSuggestions.filter(item =>
        item.toLowerCase().includes(query.toLowerCase())
      );
      setSuggestions(filtered);
    }, 300);

    return () => clearTimeout(delayDebounceFn);
  }, [query]);

  return (
    <div>
      <input
        type="text"
```

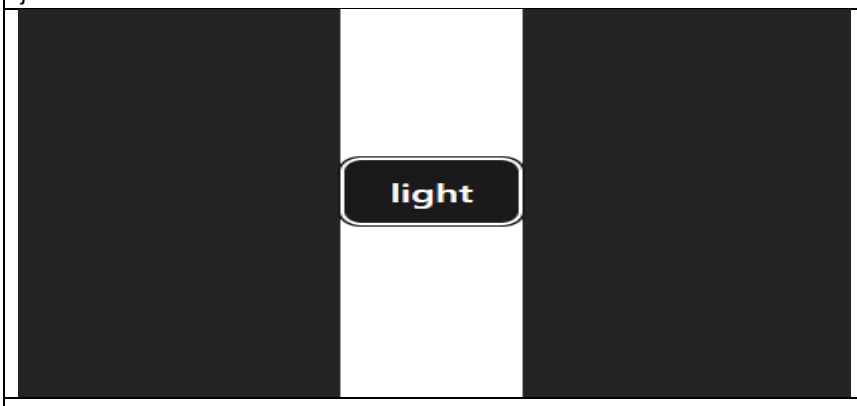
```
      placeholder="Search fruits..."
      value={query}
      onChange={(e) => setQuery(e.target.value)}
    />

    {suggestions.length > 0 && (
      <ul>
        {suggestions.map((item, idx) => (
          <li
            key={idx}
            onClick={() => {
              setQuery(item);
              setSuggestions([]);
            }}
          >
            {item}
          </li>
        ))}
      </ul>
    )}
  </div>
 );
}
```



13.

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

export default function Pr13() {
 const [bg, setBg] = useState("light");

 const handle = () => {
  setBg(prevBg => (prevBg === "light" ? "dark" : "light"));
 };
```

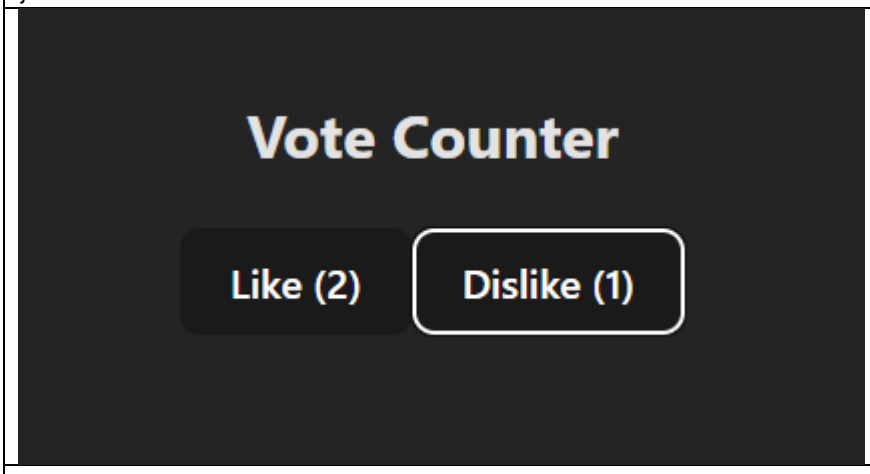
```
  const styles = {
    backgroundColor: bg === "light" ? "white" : "black",
    height: "100vh",
    display: "flex",
    justifyContent: "center",
    alignItems: "center"
  };

  return (
    <div style={styles}>
      <button onClick={handle}>{bg}</button>
    </div>
  );
}
```



14.

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

export default function Pr14() {
    const [likes, setLikes] = useState(0);
    const [dislikes, setDislikes] = useState(0);

    const handleLike = () => {
        setLikes(likes+1);
    };

    const handleDislike = () => {
        setDislikes(dislikes + 1);
    };
  return (
    <>
      <h2>Vote Counter</h2>
      <div>
        <button onClick={handleLike}>
          Like ({likes})
        </button>
        <button onClick={handleDislike}>
          Dislike ({dislikes})
        </button>
      </div>
```

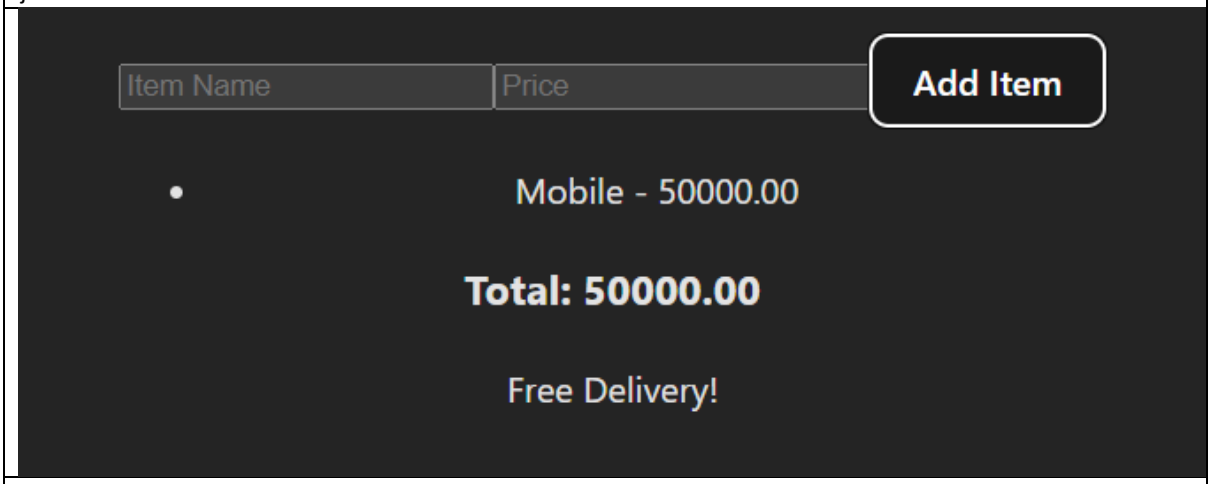
```
    </>
  )
}
```



15.

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

export default function Pr15() {
   const [items, setItems] = useState([]);
   const [itemName, setItemName] = useState('');
   const [itemPrice, setItemPrice] = useState('');

   const handleAddItem = () => {
      const price = parseFloat(itemPrice);

      if (itemName.trim() === '' || isNaN(price) || price < 0) {
      alert('Please enter a valid item name and price.');
      return;
      }

      const newItem = { name: itemName.trim(), price };
      setItems([...items, newItem]);

      setItemName('');
      setItemPrice('');
   }
   const total = items.reduce((acc, item) => acc + item.price, 0);
  return (
   <>
    <div>
      <input
         type="text"
         placeholder="Item Name"
         value={itemName}
         onChange={(e) => setItemName(e.target.value)}
      />
      <input
         type="number"
         placeholder="Price"
```

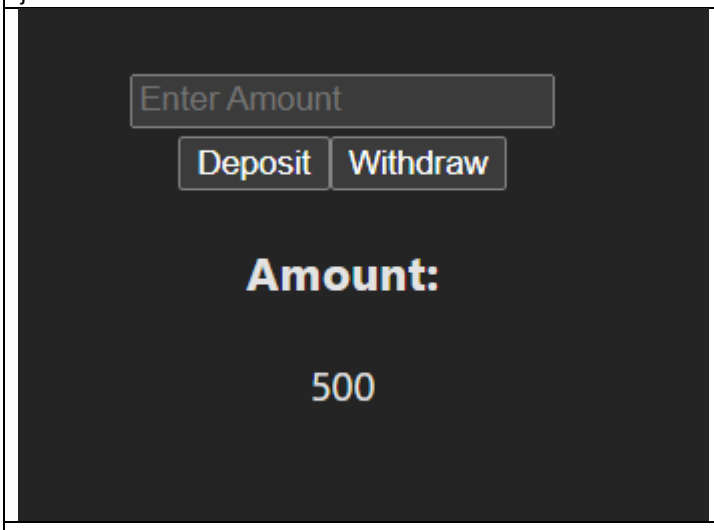
```
        value={itemPrice}
        onChange={(e) => setItemPrice(e.target.value)}
      />
      <button onClick={handleAddItem}>
        Add Item
      </button>
      </div>

      <ul>
      {items.map((item, index) => (
        <li key={index}>
        {item.name} - {item.price.toFixed(2)}
        </li>
      ))}
      </ul>

      <h3>Total: {total.toFixed(2)}</h3>
      {total > 500 && <p>Free Delivery!</p>}
    </>
  )
}
```



16.

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

export default function Pr16() {
   const [amount,setAmount] = useState(0)
   const [input,setInput] = useState("")
   const handleAdd = ()=> {
      const value = parseFloat(input);
      if (!isNaN(value) && value > 0) {
      setAmount(amount + value);
      setInput('');
      } else {
      alert('Please enter a valid positive number');
      }
   }
   const handlesub = ()=> {
      const value = parseFloat(input);
```

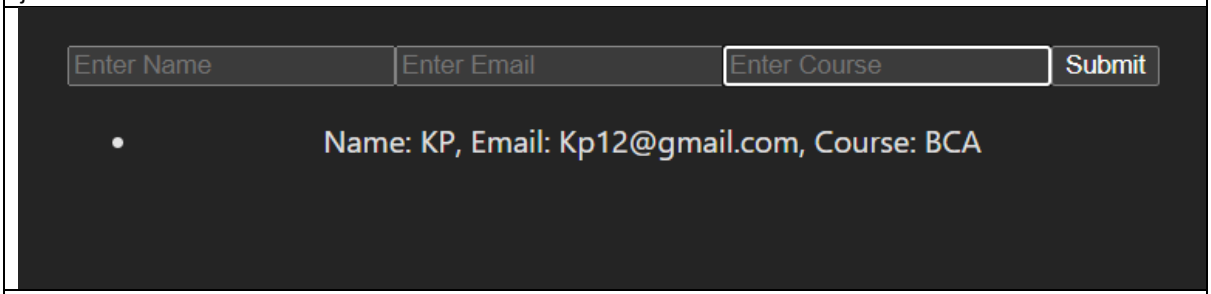
```
      if (!isNaN(value) && value > 0) {
      setAmount(amount - value);
      setInput('');
      } else {
      alert('Please enter a valid positive number');
      }
   }
  return (
   <>
    <input type="text" placeholder="Enter Amount" value={input} onChange={(e) =>
setInput(e.target.value)} /><br />
    <input type="submit" value="Deposit" onClick={handleAdd}/>
    <input type="submit" value="Withdraw" onClick={handlesub}/>
    <h3>Amount:</h3>
     {amount < 500 && <p>Low Balance</p>}
     <p>{amount}</p>
   </>
  )
}
```



17.

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

export default function Pr17() {
   const [item,setItem] = useState({name: '',
   email: '',
   course: ''})
   const [form,setForm] = useState([])
   const handleChange = (e) => {
      const { name, value } = e.target;
      setItem(prev => ({
        ...prev,
        [name]: value
      }));
    };
    const handleSubmit = (e) => {
      e.preventDefault();
```

```
      setForm(prev => [...prev, item]);

      setItem({
        name: '',
        email: '',
        course: ''
      });
    };
 return (
   <>
    <form onSubmit={handleSubmit}>
       <input type="text" placeholder="Enter Name" name="name" value={item.name}
onChange={handleChange}/>
       <input type="text" placeholder="Enter Email" name="email" value={item.email}
onChange={handleChange}/>
       <input type="text" placeholder="Enter Course" name="course" value={item.course}
onChange={handleChange}/>
       <input type="submit" value="Submit" />
    </form>
    <ul>
    {
       form.map((formItem,index)=>(<li key={index}>Name: {formItem.name}, Email:
{formItem.email}, Course: {formItem.course}</li>))
    }
    </ul>
   </>
 )
}
```



18.

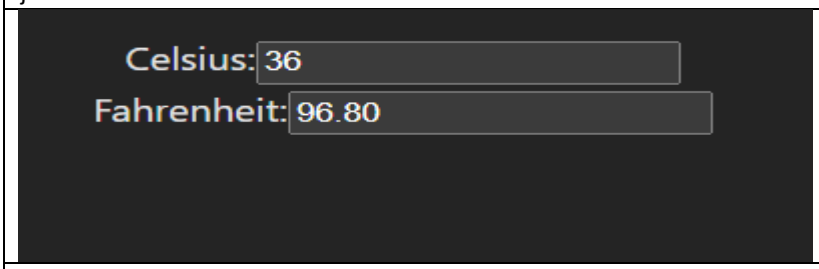
```
import React,{useState} from 'react'

export default function Pr18() {
   const [credentials, setCredentials] = useState({
      email: '',
      password: ''
    });

    const handleChange = (e) => {
      const { name, value } = e.target;
      setCredentials(prev => ({
        ...prev,
        [name]: value
      }));
```

```
    };

    const handleSubmit = (e) => {
      e.preventDefault();
      console.log('Login submitted:', credentials);
      setCredentials({
         email:"",
         password:""
      })
    };

    return (
      <form onSubmit={handleSubmit}>
        <input
          type="email"
          name="email"
          placeholder="Enter Email"
          value={credentials.email}
          onChange={handleChange}
          required
        />
        <input
          type="password"
          name="password"
          placeholder="Enter Password"
          value={credentials.password}
          onChange={handleChange}
          required
        />
        <button type="submit">Login</button>
      </form>
    );
}
```

19.

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

export default function Pr19() {
  const [celsius, setCelsius] = useState('');
  const [fahrenheit, setFahrenheit] = useState('');

  const handleCelsius = (e) => {
```

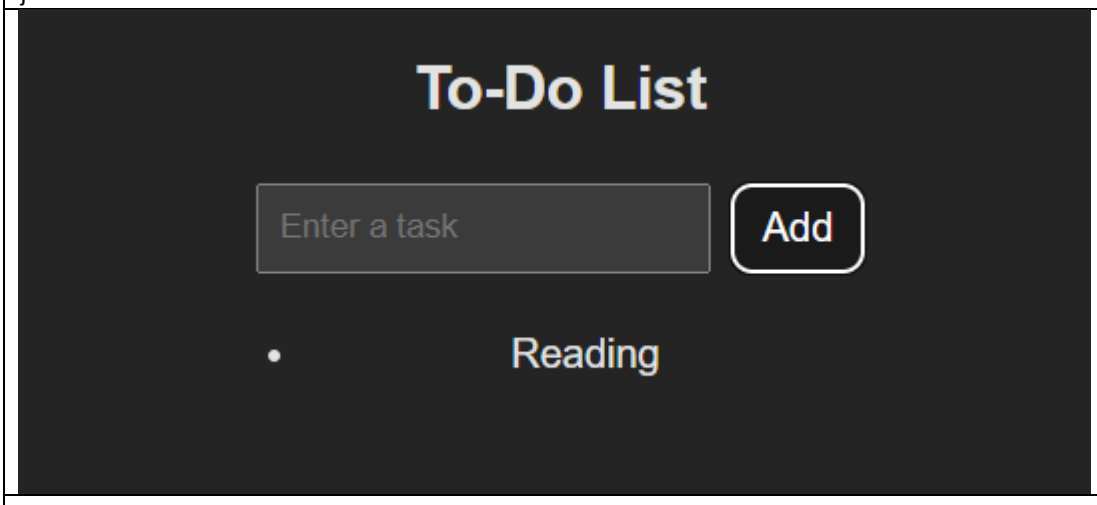
```
    const c = e.target.value;
    setCelsius(c);


    if (c === '' || isNaN(c)) {
      setFahrenheit('');
    } else {
      const f = (parseFloat(c) * 9) / 5 + 32;
      setFahrenheit(f.toFixed(2));
    }
  };

  return (
    <div>
      <label>
        Celsius:
        <input
          type="text"
          value={celsius}
          onChange={handleCelsius}
          placeholder="Enter Celsius"
        />
      </label>
      <br />
      <label>
        Fahrenheit:
        <input type="text" value={fahrenheit} readOnly placeholder="Fahrenheit" />
      </label>
    </div>
  );
}
```



20.

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

export default function Pr20() {
    const [task, setTask] = useState('');
    const [tasks, setTasks] = useState([]);

    const handleChange = (e) => {
      setTask(e.target.value);
    };

    const handleAdd = () => {
      if (task.trim() === '') return;
```

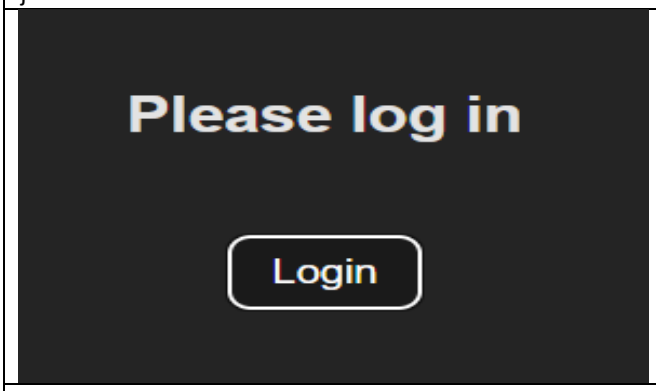
```
    setTasks(prevTasks => [...prevTasks, task.trim()]);
    setTask('');
  };

  return (
    <div style={{ maxWidth: '400px', margin: '0 auto', fontFamily: 'Arial' }}>
      <h2> To-Do List</h2>
      <div style={{ display: 'flex', gap: '8px' }}>
        <input
          type="text"
          placeholder="Enter a task"
          value={task}
          onChange={handleChange}
          style={{ flex: 1, padding: '8px' }}
        />
        <button onClick={handleAdd} style={{ padding: '8px 12px' }}>
          Add
        </button>
      </div>

      <ul style={{ marginTop: '20px', paddingLeft: '20px' }}>
        {tasks.map((t, index) => (
          <li key={index}>{t}</li>
        ))}
      </ul>
    </div>
  );
}
```



21.

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

export default function Pr21() {
  const [isLoggedIn, setIsLoggedIn] = useState(false);

  const toggleLogin = () => setIsLoggedIn(!isLoggedIn);

  return (
    <div style={{ textAlign: 'center', marginTop: '50px', fontFamily: 'Arial' }}>
```

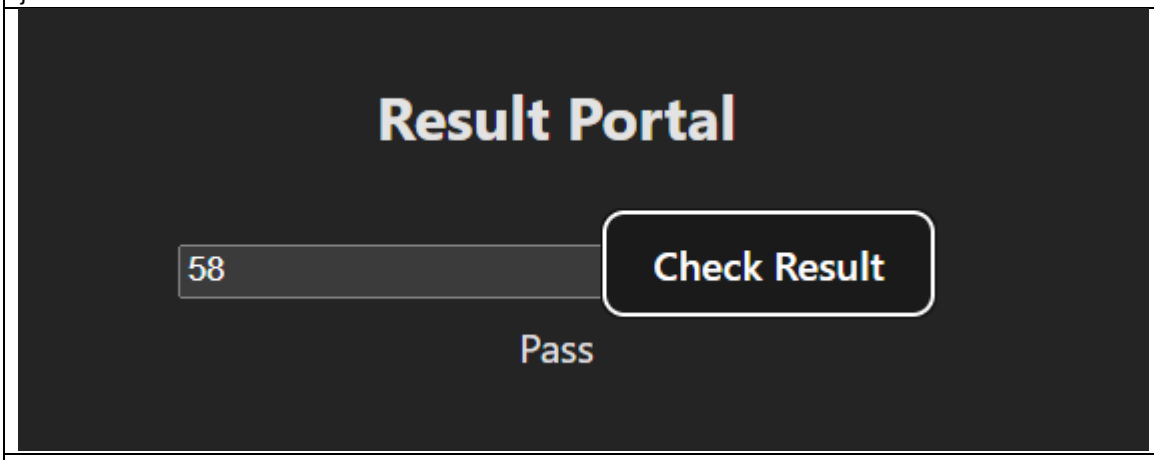
```
      {isLoggedIn ? (
        <h2>Welcome, User</h2>
      ) : (
        <h2>Please log in</h2>
      )}
      <button onClick={toggleLogin} style={{ marginTop: '20px', padding: '8px 16px' }}>
        {isLoggedIn ? 'Logout' : 'Login'}
      </button>
    </div>
  );
}
```



22.

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

export default function Pr22() {
  const [marks, setMarks] = useState('');
  const [result, setResult] = useState(null);

  const handleChange = (e) => {
    setMarks(e.target.value);
  };

  const handleSubmit = (e) => {
    e.preventDefault();

    const numMarks = Number(marks);
    if (isNaN(numMarks) || marks === '' || numMarks>=100) {
      setResult('Please enter a valid number');
    } else if (numMarks >= 40 && numMarks<100) {
      setResult('Pass');
    } else {
      setResult('Fail');
    }
  };

  return (
    <div>
      <h2>Result Portal</h2>
      <form onSubmit={handleSubmit}>
        <input
          type="text"
```

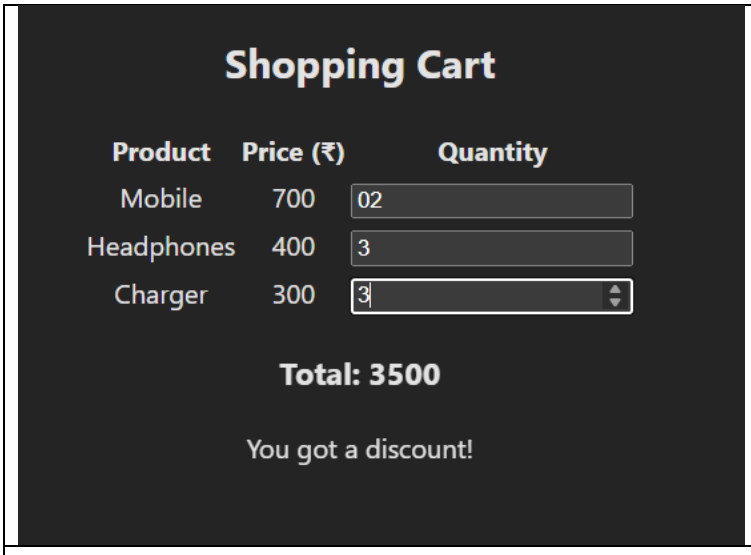
```
          placeholder="Enter Marks"
          value={marks}
          onChange={handleChange}
        />
        <button type="submit">
          Check Result
        </button>
      </form>

      {result && (
        <div>
          {result}
        </div>
      )}
    </div>
  );
}
```



23.

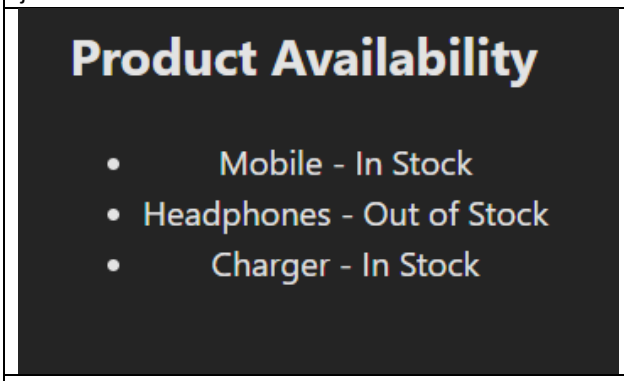
```
import React,{useState} from 'react'

export default function Pr23() {
  const products = [
    { name: 'Mobile', price: 700 },
    { name: 'Headphones', price: 400 },
    { name: 'Charger', price: 300 }
  ];

  const [quantities, setQuantities] = useState({
    Mobile: 0,
    Headphones: 0,
    Charger: 0
  });

  const handleQuantityChange = (e, productName) => {
    const value = parseInt(e.target.value);
    if (isNaN(value) || value < 0) return;
    setQuantities(prev => ({
      ...prev,
      [productName]: value
```

```
    }));
  };

  const total = products.reduce((sum, product) => {
    return sum + product.price * (quantities[product.name] || 0);
  }, 0);

  return (
    <div>
      <h2>Shopping Cart</h2>
      <table>
        <thead>
          <tr>
            <th>Product</th>
            <th>Price (₹)</th>
            <th>Quantity</th>
          </tr>
        </thead>
        <tbody>
          {products.map(product => (
            <tr key={product.name}>
              <td>{product.name}</td>
              <td>{product.price}</td>
              <td>
                <input
                  type="number"
                  min="0"
                  value={quantities[product.name]}
                  onChange={e => handleQuantityChange(e, product.name)}
                />
              </td>
            </tr>
          ))}
        </tbody>
      </table>

      <h3>Total: {total}</h3>

      {total > 1000 && <p>You got a discount!</p>}
    </div>
  );
}
```



24.

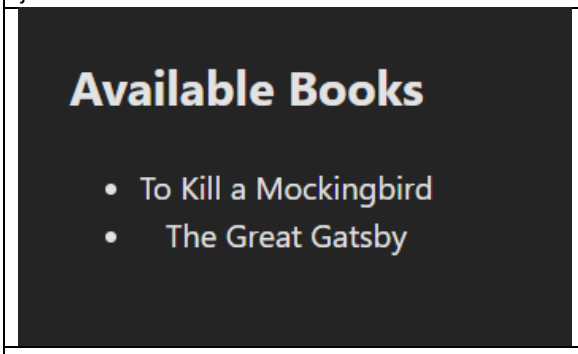
```
import React,{useState  } from 'react'

export default function Pr24() {
   const products = [
      { name: 'Mobile', quantity: 5 },
      { name: 'Headphones', quantity: 0 },
      { name: 'Charger', quantity: 3 }
    ];

    return (
      <div>
        <h2>Product Availability</h2>
        <ul>
          {products.map((product, index) => (
            <li key={index}>
              {product.name} - {product.quantity > 0 ? 'In Stock' : 'Out of Stock'}
            </li>
          ))}
        </ul>
      </div>
    );
}
```



25.

```
import React from 'react'
```

```
export default function Pr25() {
  const books = [
    { id: 1, title: 'To Kill a Mockingbird', status: 'Available' },
    { id: 2, title: '1984', status: 'Checked Out' },
    { id: 3, title: 'The Great Gatsby', status: 'Available' },
    { id: 4, title: 'Pride and Prejudice', status: 'Checked Out' }
  ];

  return (
    <div>
      <h2>Available Books</h2>
      <ul>
        {books.map(book =>
          book.status === "Available" ? (
            <li key={book.id}>{book.title}</li>
          ) : null
        )}
      </ul>
    </div>
  );
}
```



26.

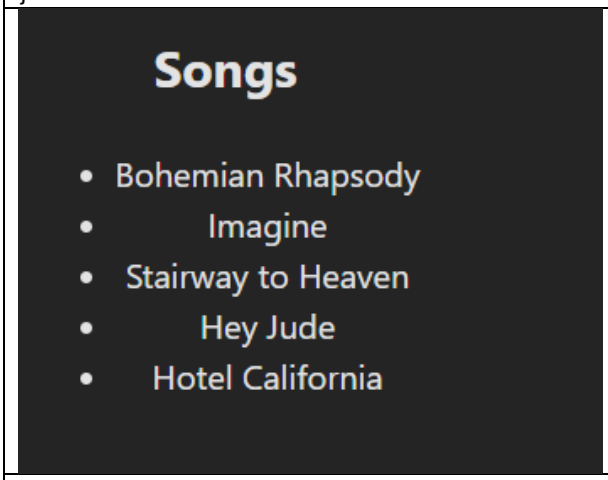
```
import React,{useState} from 'react'

export default function Pr26() {
  const doctors = [
    'Dr. Smith',
    'Dr. Johnson',
    'Dr. Williams',
    'Dr. Brown'
   ];

   const [confirmation, setConfirmation] = useState('');

   const handleBooking = (doctor) => {
    setConfirmation(`Appointment confirmed with ${doctor}`);
   };

   return (
    <div>
      <h2>Doctor List</h2>
      <ul>
```

```
        {doctors.map((doctor, index) => (
          <li key={index}>
            {doctor}{' '}
            <button onClick={() => handleBooking(doctor)}>Book Appointment</button>
          </li>
        ))}
      </ul>

      {confirmation && (
        <p>{confirmation}</p>
      )}
    </div>
  );
}
```

27.

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

export default function Pr27() {
  const songs = [
    'Bohemian Rhapsody',
    'Imagine',
    'Stairway to Heaven',
    'Hey Jude',
    'Hotel California'
  ];

  const [currentSong, setCurrentSong] = useState(null);

  const handleClick = (song) => {
    setCurrentSong(song);
  };

  return (
    <div>
      <h2>Songs</h2>
      <ul>
```

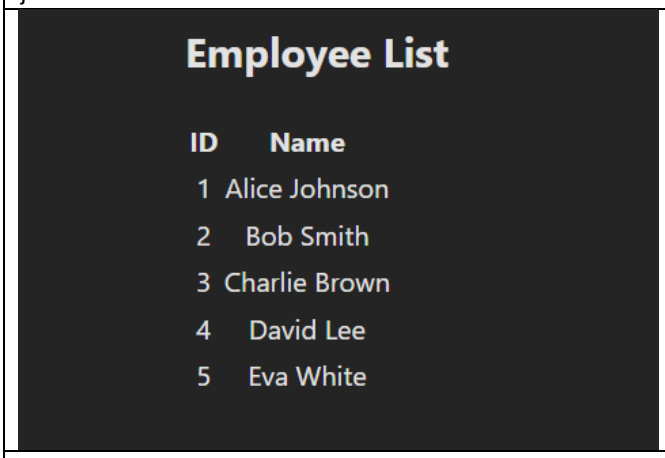
```
          {songs.map((song, index) => (
            <li
              key={index}
              onClick={() => handleClick(song)}
              className={currentSong === song ? 'active' : ''}
            >
              {song}
            </li>
          ))}
        </ul>

        {currentSong && (
          <p><strong>Now Playing:</strong> {currentSong}</p>
        )}
      </div>
    );
}
```



28.

```
import React from 'react'

export default function Pr28() {
   const employees = [
      { id: 1, name: 'Alice Johnson' },
      { id: 2, name: 'Bob Smith' },
      { id: 3, name: 'Charlie Brown' },
      { id: 4, name: 'David Lee' },
      { id: 5, name: 'Eva White' }
    ];

    return (
      <div>
        <h2>Employee List</h2>
        <table>
          <thead>
            <tr>
              <th>ID</th>
              <th>Name</th>
            </tr>
```

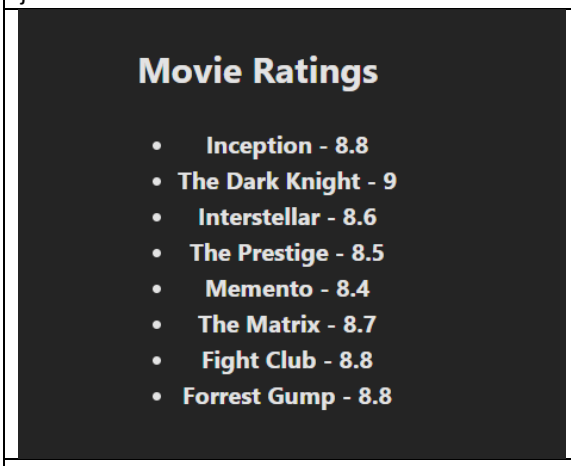
```
          </thead>
          <tbody>
           {employees.map((employee) => (
            <tr key={employee.id}>
             <td>{employee.id}</td>
             <td>{employee.name}</td>
            </tr>
           ))}
          </tbody>
         </table>
        </div>
      );
}
```



29.

```
import React from 'react'

export default function Pr29() {
   const movies = [
      { title: 'Inception', rating: 8.8 },
      { title: 'The Dark Knight', rating: 9.0 },
      { title: 'Interstellar', rating: 8.6 },
      { title: 'The Prestige', rating: 8.5 },
      { title: 'Memento', rating: 8.4 },
      { title: 'The Matrix', rating: 8.7 },
      { title: 'Fight Club', rating: 8.8 },
      { title: 'Forrest Gump', rating: 8.8 }
    ];

    return (
     <div>
      <h2>Movie Ratings</h2>
      <ul>
       {movies.map((movie, index) => (
        <li key={index}>
         {movie.rating > 8 ? (
          <strong>{movie.title} - {movie.rating}</strong>
         ) : (
          `${movie.title} - ${movie.rating}`
         )}
```

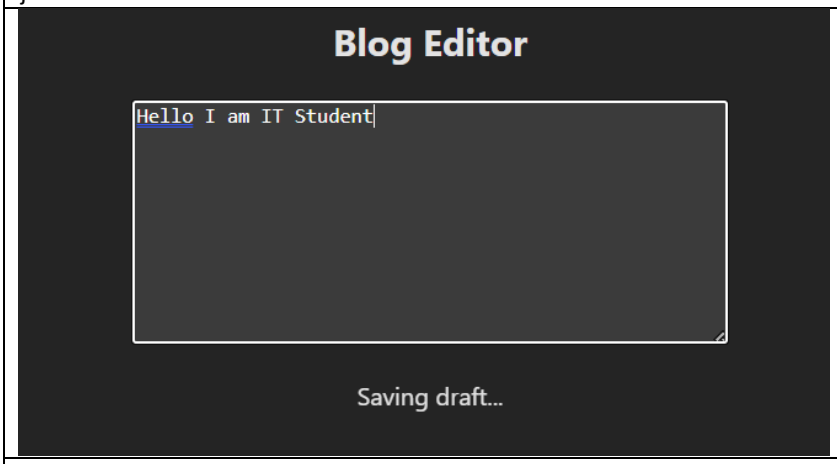
```
            </li>
          ))}
        </ul>
      </div>
    );
}
```



30.

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

export default function Pr30() {
  const [content, setContent] = useState('');
  const [savedContent, setSavedContent] = useState('');

  useEffect(() => {
    const savedDraft = localStorage.getItem('blogDraft');
    if (savedDraft) {
      setContent(savedDraft);
      setSavedContent(savedDraft);
    }

    const interval = setInterval(() => {
      if (content !== savedContent) {
        setSavedContent(content);
        localStorage.setItem('blogDraft', content);
        console.log('Draft saved:', content);
      }
    }, 5000);

    return () => clearInterval(interval);
  }, [content, savedContent]);

  const handleChange = (e) => {
    setContent(e.target.value);
  };

  return (
    <div>
      <h2>Blog Editor</h2>
      <textarea
```

```
        value={content}
        onChange={handleChange}
        placeholder="Write your blog post..."
        rows="10"
        cols="50"
      />
      <p>{content ? 'Saving draft...' : 'Start typing to save draft'}</p>
    </div>
  );
}
```

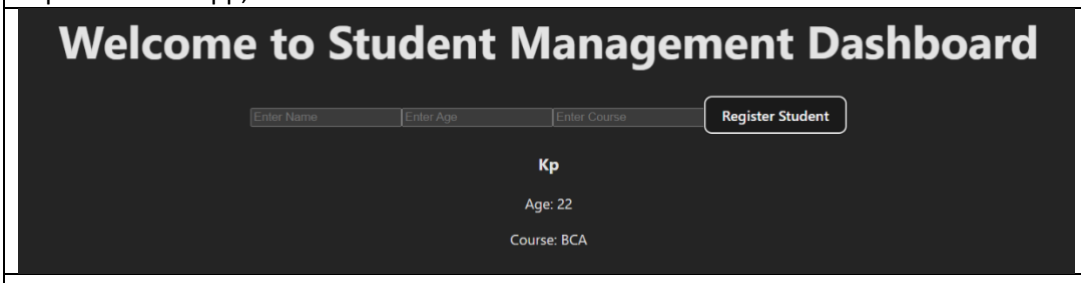


31.

```
import React, { useState, useEffect } from 'react';
import './App.css';

const StudentCard = ({ name, age, course }) => {
  return (
    <div className="student-card">
      <h3>{name}</h3>
      <p>Age: {age}</p>
      <p>Course: {course}</p>
    </div>
  );
};

function App() {
  const [students, setStudents] = useState([]);
  const [name, setName] = useState('');
  const [age, setAge] = useState('');
  const [course, setCourse] = useState('');

  useEffect(() => {
    if (students.length > 0) {
      console.log('Student list updated');
    }
  }, [students]);
  useEffect(() => {
    document.title = `${students.length} Students Registered`;
  }, [students]);
  const handleSubmit = (e) => {
```

```
    e.preventDefault();
    if (name && age && course) {
      const newStudent = { name, age, course };
      setStudents([...students, newStudent]);
      setName('');
      setAge('');
      setCourse('');
    }
  };

  return (
    <div className="App">
      <h1>Welcome to Student Management Dashboard</h1>

      <form onSubmit={handleSubmit} className="registration-form">
        <input
          type="text"
          placeholder="Enter Name"
          value={name}
          onChange={(e) => setName(e.target.value)}
        />
        <input
          type="number"
          placeholder="Enter Age"
          value={age}
          onChange={(e) => setAge(e.target.value)}
        />
        <input
          type="text"
          placeholder="Enter Course"
          value={course}
          onChange={(e) => setCourse(e.target.value)}
        />
        <button type="submit">Register Student</button>
      </form>
      <div className="student-list">
        {students.length === 0 ? (
          <p>No students registered yet.</p>
        ) : (
          students.map((student, index) => (
            <StudentCard
              key={index}
              name={student.name}
              age={student.age}
              course={student.course}
            />
          ))
        )}
      </div>
    </div>
  );
```

```
}

export default App;
```



32.

```
import React, { useState, useEffect } from "react";

function ProductCard({ name, price, stock, onAddToCart }) {
 return (
  <div>
   <h3>{name}</h3>
   <p>Price: ${price.toFixed(2)}</p>
   <p>{stock > 0 ? "In Stock" : "Out of Stock"}</p>
   <button onClick={onAddToCart} disabled={stock === 0}>
    Add to Cart
   </button>
   <hr />
  </div>
 );
}

export default function Pr32() {
 // Products array
 const productsData = [
  { id: 1, name: "Laptop", price: 999.99, stock: 5 },
  { id: 2, name: "Headphones", price: 199.99, stock: 0 },
  { id: 3, name: "Smartphone", price: 799.99, stock: 10 },
  { id: 4, name: "Keyboard", price: 49.99, stock: 2 },
  { id: 5, name: "Monitor", price: 299.99, stock: 4 },
 ];

 const [cartCount, setCartCount] = useState(0);
 const [searchTerm, setSearchTerm] = useState("");

 // Update document title and log on cart change
 useEffect(() => {
  document.title = `Cart (${cartCount} item${cartCount !== 1 ? "s" : ""})`;
  console.log(`Cart updated: ${cartCount} item${cartCount !== 1 ? "s" : ""}`);
 }, [cartCount]);

 // Filter products by search term (case-insensitive)
 const filteredProducts = productsData.filter((product) =>
  product.name.toLowerCase().includes(searchTerm.toLowerCase())
 );
```

```
  return (
    <div>
      <h1>Welcome to My Online Store</h1>

      <input
        type="text"
        placeholder="Search products..."
        value={searchTerm}
        onChange={(e) => setSearchTerm(e.target.value)}
      />

      <p>Cart Items: {cartCount}</p>

      {filteredProducts.length > 0 ? (
        filteredProducts.map(({ id, name, price, stock }) => (
          <ProductCard
            key={id}
            name={name}
            price={price}
            stock={stock}
            onAddToCart={() => setCartCount(cartCount + 1)}
          />
        ))
      ) : (
        <p>No products found</p>
      )}
    </div>
  );
}
```