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Task:REACT DA 1

App.js

```javascript
import "./App.css";
import Example1 from "./Components/23122022/ex1";
import Student from "./Components/23122022/ex2";
import FormExample from "./Components/23122022/ex3";
import { useState } from "react";

function App() {
  const [gender, setGender] = useState();
  const [name, setName] = useState();
  const getColor = (color) => {
    document.body.style.background = color;
  };

  return (
    <div className="App">
```

```jsx
      <label>Male</label>
      <input type="radio" name="gender" onChange={(e) => setGender("Male")} />
      <label>Female</label>
      <input type="radio" name="gender" onChange={(e) => setGender("Female")}
/>
      <input type="text" onChange={(e) => setName(e.target.value)} />
<div>
      <Example1
        name={name}
        gender={gender}
        color={(color) => getColor(color)}
      />
      </div>
      <div>
      <Student />
      </div>
      <FormExample />
    </div>
  );
}

export default App;
```

EXAMPLE 1

```jsx
const Example1 = (props) => {
  console.log(props.gender);
  let today = new Date();
  let date =
    today.getFullYear() + "-" + (today.getMonth() + 1) + "-" +
today.getDate();
  const color = (e) => {
    console.log(e.target.value);
    return props.color(e.target.value);
  };

  return (
    <>
      <div>
        Welcome
        {props.gender === "Male" ? " Mr." : " Ms."} {props.name}
      </div>
      <div>Date is {date}</div>
      <div>
        <select onChange={(e) => color(e)}>
          <option value="red">Red</option>
          <option value="yellow">Yellow</option>
          <option value="blue">Blue</option>
          <option value="orange">Orange</option>
        </select>
      </div>
    </>
  );
};

export default Example1;
```

EXAMPLE2

```jsx
import React from "react";

class Student extends React.Component {
  constructor() {
    super();
    this.state = {
      name: "Shiv Sai",
      age: 20,
      gender: "Male",
      group: 1,
    };
  }
```

```jsx
  changeGroup() {
    if (this.state.group == 1) {
      this.setState({ ...this.state, group: 2 });
    } else if (this.state.group == 2) {
      this.setState({ ...this.state, group: 3 });
    } else if (this.state.group == 3) {
      this.setState({ ...this.state, group: 1 });
    }
  }

  render() {
    return (
      <div>
        <p>Name: {this.state.name}</p>
        <p>Age: {this.state.age}</p>
        <p>Gender: {this.state.gender}</p>
        <p>Group: {this.state.group}</p>
        <button onClick={() => this.changeGroup()}>Change Group</button>
      </div>
    );
  }
}
export default Student;
```

EXAMPLE3

```jsx
import React from "react";

const  FormExample = ()=> {
  const [formState, setFormState] = React.useState({
    name: "",
    age: "",
    gender: "",
  });

  const handleChange = (event) => {
    setFormState({ ...formState, [event.target.name]: event.target.value });
  }

  const handleSubmit = (event) => {
    event.preventDefault();
    alert(
      `Name: ${formState.name} Age: ${formState.age} Gender:
${formState.gender}`
    );
  }
```

```jsx
  return (
    <form onSubmit={handleSubmit}>
      <label>
        Name:
        <input
          type="text"
          name="name"
          value={formState.name}
          onChange={handleChange}
        />
      </label>
      <br />
      <label>
        Age:
        <input
          type="text"
          name="age"
          value={formState.age}
          onChange={handleChange}
        />
      </label>
      <br />
      <label>
        Male:
        <input
          type="radio"
          name="gender"
          value="Male"
          onChange={handleChange}
        />
      </label>
      <label>
        Female:
        <input
          type="radio"
          name="gender"
          value="Female"
          onChange={handleChange}
        />
      </label>
      <br />
      <button type="submit">Submit</button>
    </form>
  );
}
export default FormExample;
```

Output Screen Shot