```
import { useState } from 'react';
const TemperatureConverter = () => {
const [celsius, setCelsius] = useState(0);
const [fahrenheit, setFahrenheit] = useState(0);
const [isCelsius, setIsCelsius] = useState(true);
const handleCelsiusChange = (e: React.ChangeEvent<HTMLInputElement>) => {
 const value = parseFloat(e.target.value);
 setCelsius(value);
 setFahrenheit((value * 9 / 5) + 32);
};
const handleFahrenheitChange = (e: React.ChangeEvent<HTMLInputElement>) => {
 const value = parseFloat(e.target.value);
 setFahrenheit(value);
 setCelsius((value - 32) * 5 / 9);
};
```

```
const handleUnitChange = () => {
 setIsCelsius(!isCelsius);
};
return (
 <div className="max-w-md mx-auto p-4 mt-10 bg-white rounded-lg shadow-md">
  <h1 className="text-3xl font-bold text-gray-900 mb-4">Temperature Converter</h1>
  <div className="flex flex-col mb-4">
   <label className="text-gray-700 mb-2" htmlFor="temperature">Temperature:</label>
   <input
    type="number"
    id="temperature"
    value={isCelsius ? celsius : fahrenheit}
    on Change = \{ is Celsius ?\ handle Celsius Change : handle Fahrenheit Change \}
    className="p-2 pl-10 text-sm text-gray-700 border border-gray-300 rounded-lg focus:ring-
blue-500 focus:border-blue-500"
```

/>

```
<span className="text-gray-700 ml-2">{isCelsius ? '°C' : '°F'}</span>
  </div>
  <div className="flex flex-col mb-4">
   <label className="text-gray-700 mb-2" htmlFor="result">Result:</label>
   <input
    type="number"
    id="result"
    value={isCelsius ? fahrenheit : celsius}
    readOnly
    className="p-2 pl-10 text-sm text-gray-700 border border-gray-300 rounded-lg focus:ring-
blue-500 focus:border-blue-500"
   />
   <span className="text-gray-700 ml-2">{isCelsius ? '°F' : '°C'}</span>
  </div>
  <but
   className="bg-blue-500 hover:bg-blue-700 text-white font-bold py-2 px-4 rounded-lg"
   onClick={handleUnitChange}
   Switch Unit
```

);		
} ;		

export default TemperatureConverter;