

Q1)

App.js-

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

```
function App() {
```

```
  const [color, setColor] = useState("black");
```

```
  const changeColor = () => {
```

```
    const randomColor =
```

```
    "#" + Math.floor(Math.random() * 16777215).toString(16);
```

```
    setColor(randomColor);
```

```
  };
```

```
  return (
```

```
    <div style={{ textAlign: "center", marginTop: "50px" }}>
```

```
      <h1 style={{ color: color }}>Random Color Text</h1>
```

```
      <button onClick={changeColor}>Change Color</button>
```

```
    </div>
```

```
  );
```

```
}
```

```
export default App;
```

Q2)

App.ts-

```
import { Component } from '@angular/core';  
import { FormsModule } from '@angular/forms';
```

```
@Component({  
  selector: 'app-root',  
  standalone: true,  
  imports: [FormsModule],  
  templateUrl: './app.html'  
})  
  
export class AppComponent {  
  celsius: number = 0;  
  fahrenheit: number = 0;  
  
  toFahrenheit() {  
    this.fahrenheit = (this.celsius * 9 / 5) + 32;  
  }  
  
  toCelsius() {  
    this.celsius = (this.fahrenheit - 32) * 5 / 9;  
  }  
}
```

App.html-

<h2>Temperature Converter</h2>

<label>Celsius:</label>

<input type="number" [(ngModel)]="celsius">

<button (click)="toFahrenheit()">To Fahrenheit</button>

<label>Fahrenheit:</label>

<input type="number" [(ngModel)]="fahrenheit">

<button (click)="toCelsius()">To Celsius</button>

<p>{{celsius}} °C = {{fahrenheit}} °F</p>