

Q1)

App.js-

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

export default function App() {
  const [color, setColor] = useState("blue");

  const changeColor = () => {
    const randomColor = "#" + Math.floor(Math.random() * 16777215).toString(16);
    setColor(randomColor);
  };

  const boxStyle = {
    backgroundColor: color,
    width: "200px",
    height: "200px",
    cursor: "pointer",
  };

  return (
    <div style={{ textAlign: "center", marginTop: "50px" }}>
      <h2>Click the box to change its color</h2>
      <div style={boxStyle} onClick={changeColor}></div>
    </div>
  );
}
```

```
};  
}
```

Q2)

App.ts-

```
import { Component } from '@angular/core';  
import { CommonModule } from '@angular/common';  
  
@Component({  
  selector: 'app-root',  
  standalone: true,  
  imports: [CommonModule],  
  templateUrl: './app.html',  
  styleUrls: ['./app.css']  
})  
export class AppComponent {  
  title = 'Weather Info App';  
  
  cities = [  
    { name: 'Mumbai', temperature: 30, condition: 'Sunny' },  
    { name: 'Delhi', temperature: 25, condition: 'Cloudy' },  
    { name: 'Chennai', temperature: 33, condition: 'Humid' },
```

```
{ name: 'Kolkata', temperature: 28, condition: 'Rainy' },  
 { name: 'Pune', temperature: 26, condition: 'Clear' }  
];  
}
```

App.html-

```
<div class="container">  
  <h1>{{ title }}</h1>  
  <div class="weather-card" *ngFor="let city of cities">  
    <h2>{{ city.name }}</h2>  
    <p>  Temperature: {{ city.temperature }}°C</p>  
    <p>  Condition: {{ city.condition }}</p>  
  </div>  
</div>
```