

Q1)

App.js-

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

function App() {
  const [isDark, setIsDark] = useState(false);

  const toggleTheme = () => {
    setIsDark(!isDark);
  };

  const appStyle = {
    height: "100vh",
    display: "flex",
    flexDirection: "column",
    alignItems: "center",
    justifyContent: "center",
    backgroundColor: isDark ? "#222" : "#f4f4f4",
    color: isDark ? "#fff" : "#000",
    transition: "0.5s"
  };

  return (
    <div style={appStyle}>
      <h1>{isDark ? "Dark Mode" : "Light Mode"}</h1>
    </div>
  );
}

export default App;
```

```
<button onClick={toggleTheme}>  
  Switch to {isDark ? "Light" : "Dark"} Mode  
</button>  
</div>  
);  
}  
  
export default App;
```

Q2)

App.ts-

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

```
@Component({  
  selector: 'app-root',  
  standalone: true,  
  imports: [FormsModule, CommonModule],  
  templateUrl: './app.html',  
  styleUrls: ['./app.css'  
})
```

```
export class AppComponent {  
  amount: number = 0;  
  converted: number = 0;  
  fromCurrency: string = 'INR';  
  toCurrency: string = 'USD';  
  
  convert() {  
    const rateINRtoUSD = 0.012; // Fixed rate: 1 INR = 0.012 USD  
    const rateUSDtoINR = 83.3; // Fixed rate: 1 USD = 83.3 INR  
  
    if (this.fromCurrency === 'INR' && this.toCurrency === 'USD') {  
      this.converted = this.amount * rateINRtoUSD;  
    } else if (this.fromCurrency === 'USD' && this.toCurrency === 'INR') {  
      this.converted = this.amount * rateUSDtoINR;  
    } else {  
      this.converted = this.amount;  
    }  
  }  
}
```

App.html-

```
<div class="container">

<h2> Currency Converter</h2>

<input type="number" [(ngModel)]="amount" placeholder="Enter amount"
/>

<div class="selectors">

<select [(ngModel)]="fromCurrency">
<option value="INR">INR</option>
<option value="USD">USD</option>
</select>

<span>to</span>

<select [(ngModel)]="toCurrency">
<option value="USD">USD</option>
<option value="INR">INR</option>
</select>

</div>

<button (click)="convert()">Convert</button>

<h3 *ngIf="converted">Converted Amount: {{ converted | number:'1.2-2' }}
{{ toCurrency }}</h3>

</div>
```