Q6 Toggle button

#MainActivity.java

import android.os.Bundle;

import android.widget.CompoundButton;

import android.widget.RelativeLayout;

import android.widget.SeekBar;

import android.widget.Switch;

import android.widget.Toast;

import android.widget.ToggleButton;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

    private ToggleButton toggleButton;

    private Switch switchButton;

    private SeekBar seekBar;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity\_main);

        toggleButton = findViewById(R.id.toggleButton);

        switchButton = findViewById(R.id.switchButton);

        seekBar = findViewById(R.id.seekBar);

        setToggleButtonListener();

        setSwitchButtonListener();

        setSeekBarListener();

    }

    private void setToggleButtonListener() {

        toggleButton.setOnCheckedChangeListener(new CompoundButton.OnCheckedChangeListener() {

            @Override

            public void onCheckedChanged(CompoundButton buttonView, boolean isChecked) {

                String message = isChecked ? "Toggle Button is ON" : "Toggle Button is OFF";

                showToast(message);

            }

        });

    }

    private void setSwitchButtonListener() {

        switchButton.setOnCheckedChangeListener(new CompoundButton.OnCheckedChangeListener() {

            @Override

            public void onCheckedChanged(CompoundButton buttonView, boolean isChecked) {

                String message = isChecked ? "Switch Button is ON" : "Switch Button is OFF";

                showToast(message);

            }

        });

    }

    private void setSeekBarListener() {

        seekBar.setOnSeekBarChangeListener(new SeekBar.OnSeekBarChangeListener() {

            @Override

            public void onProgressChanged(SeekBar seekBar, int progress, boolean fromUser) {

                String message = "Seek Bar Progress: " + progress;

                showToast(message);

            }

            @Override

            public void onStartTrackingTouch(SeekBar seekBar) {

                // Not implemented

            }

            @Override

            public void onStopTrackingTouch(SeekBar seekBar) {

                // Not implemented

            }

        });

    }

    private void showToast(String message) {

        Toast.makeText(this, message, Toast.LENGTH\_SHORT).show();

    }

}

#Activity\_Main.xml

<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout

    xmlns:android="http://schemas.android.com/apk/res/android"

    xmlns:tools="http://schemas.android.com/tools"

    android:layout\_width="match\_parent"

    android:layout\_height="match\_parent"

    tools:context=".MainActivity">

    <ToggleButton

        android:id="@+id/toggleButton"

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:layout\_centerHorizontal="true"

        android:layout\_marginTop="16dp"

        android:text="Toggle Button" />

    <Switch

        android:id="@+id/switchButton"

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:layout\_below="@id/toggleButton"

        android:layout\_centerHorizontal="true"

        android:layout\_marginTop="16dp"

        android:text="Switch Button" />

    <SeekBar

        android:id="@+id/seekBar"

        android:layout\_width="match\_parent"

        android:layout\_height="wrap\_content"

        android:layout\_below="@id/switchButton"

        android:layout\_marginTop="16dp"

        android:layout\_marginStart="16dp"

        android:layout\_marginEnd="16dp"/>

</RelativeLayout>