

mainActivity.java:

```
package com.example.timestable;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.util.Log;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import android.widget.SeekBar;

import java.util.ArrayList;

public class MainActivity extends AppCompatActivity {
    ListView timesTableListView;

    public void generateTimesTable(int timesTableNumber){
        ArrayList<String> timesTableContent = new
        ArrayList<String>();
        int n=15;
        for (int j=1;j<n;j++){

            timesTableContent.add(Integer.toString(timesTableNumber*j));
        }
        ArrayAdapter<String> arrayAdapter = new
        ArrayAdapter<String>(this,android.R.layout.simple_expandable_list_item_1,timesTableContent);
        timesTableListView.setAdapter(arrayAdapter);

    }

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        final SeekBar timesTableSeekBar =
        findViewById(R.id.timesTableSeekBar);
        timesTableListView =
        findViewById(R.id.timesTableListView);

        int max=20,current=1;
        timesTableSeekBar.setMax(max);
        timesTableSeekBar.setProgress(current);
        generateTimesTable(current);

        timesTableSeekBar.setOnSeekBarChangeListener(new
        SeekBar.OnSeekBarChangeListener() {
            @Override
```

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        public void onProgressChanged(SeekBar seekBar, int i,
boolean b) {
            int min =1, timesTableNumber;
            if(i<min){
                timesTableSeekBar.setProgress(min);
                timesTableNumber=min;
            }
            else
                timesTableNumber=i;
            Log.i("SeekBar value",
Integer.toString(timesTableNumber));

            generateTimesTable(timesTableNumber);
        }

@Override
public void onStartTrackingTouch(SeekBar seekBar) {

}

@Override
public void onStopTrackingTouch(SeekBar seekBar) {

}
});
}
}

```

Activity.xml

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <SeekBar
        android:id="@+id/timesTableSeekBar"
        style="@style/Widget.AppCompat.SeekBar.Discrete"
        android:layout_width="0dp"
        android:layout_height="28dp"
        android:layout_marginStart="10dp"
        android:layout_marginEnd="10dp"
        android:layout_marginBottom="50dp"
        android:max="10"
        android:progress="3"
        app:layout_constraintBottom_toTopOf="@+id/timesTableListView"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

```

```

<ListView
    android:id="@+id/timesTableListView"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginStart="15dp"
    android:layout_marginTop="100dp"
    android:layout_marginEnd="15dp"
    android:layout_marginBottom="15dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

