



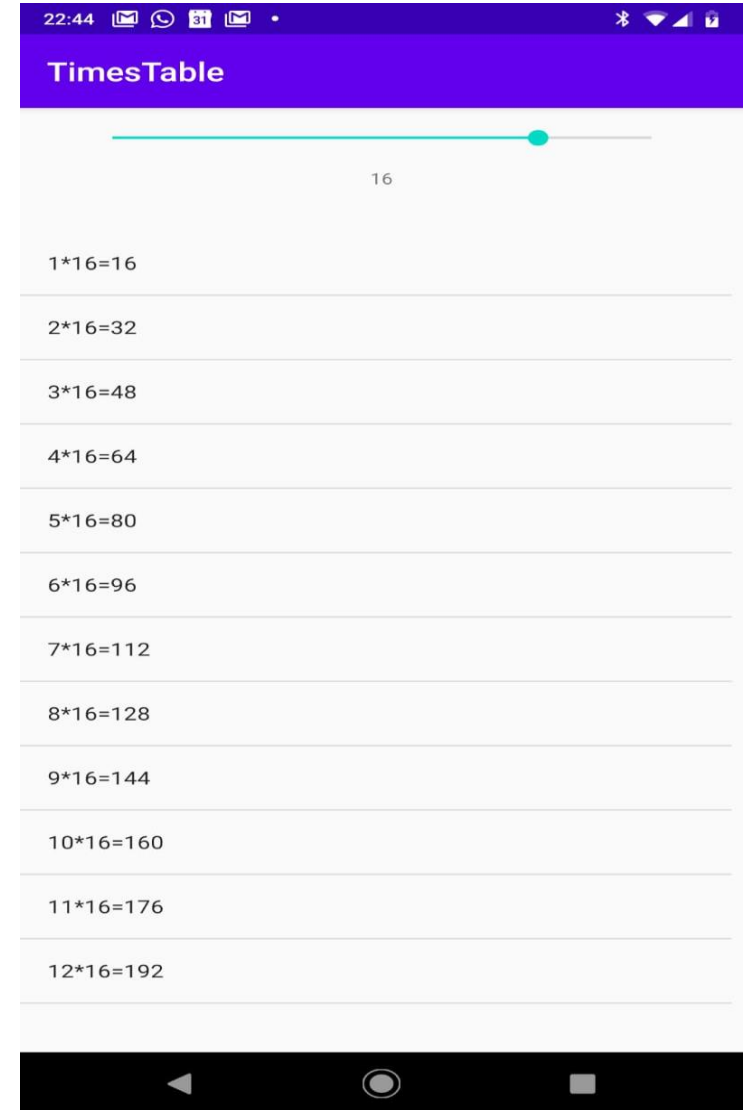
Mobil Programlama

Hafta 7



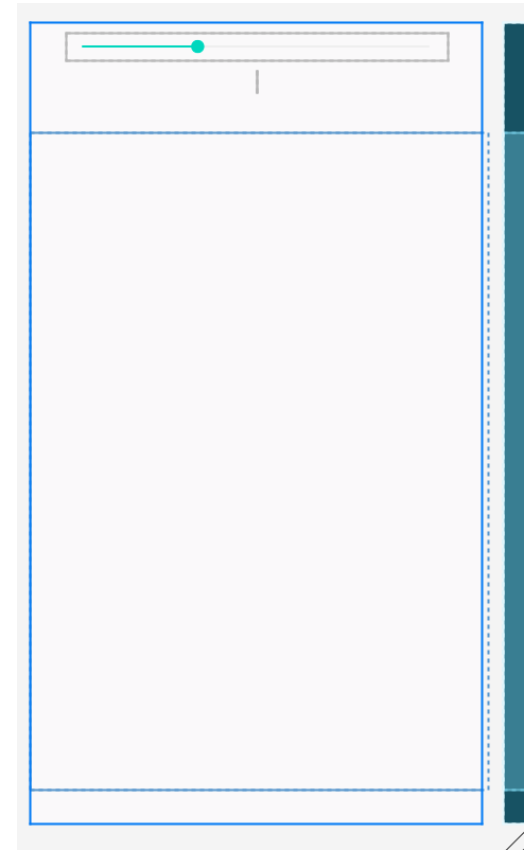
Times Table Yapmak

- Senaryo : Bir Slider değiştirildikçe listview de çarpım tablosu oluşturulacak.



ADIMLAR

- Android Studio içinde yeni proje açılır
- Layout düzenlenir
- OnCreate Metodu için





Oncreate içinde nesnelere Eriş

```
public class MainActivity extends AppCompatActivity {  
  
    SeekBar sb;  
    ListView lw;  
    TextView tw;  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_main);  
        sb=(SeekBar) findViewById(R.id.sbTimesTable);  
        lw=(ListView) findViewById(R.id.timesListView);  
        tw=(TextView) findViewById(R.id.Times);  
  
        sb.setMax(20);  
        sb.setMin(1);  
        sb.setProgress(10);  
    }  
}
```



SeekBar ı deęřimini yakala



```
sb.setOnSeekBarChangeListener(new SeekBar.OnSeekBarChangeListener() {  
    @Override  
    public void onProgressChanged(SeekBar seekBar, int progress, boolean fromUser) {  
        |  
    }  
  
    @Override  
    public void onStartTrackingTouch(SeekBar seekBar) {  
  
    }  
  
    @Override  
    public void onStopTrackingTouch(SeekBar seekBar) {  
  
    }  
});
```



Listview SeekBar içinde Güncelle

```
sb.setProgress(10);
myInfilate( progress: 10);
sb.setOnSeekBarChangeListener(new SeekBar.OnSeekBarChangeListener() {
    @Override
    public void onProgressChanged(SeekBar seekBar, int progress, boolean fromUser) {
        tw.setText(""+progress);
        myInfilate(progress);
    }
}

private void myInfilate(int progress) {

    ArrayList<String> ttcontent= new ArrayList<>();
    for(int i=1;i<=12;i++)
    {
        ttcontent.add(""+i+"*"+progress+"="+(i*progress));
    }
    ArrayAdapter<String> adaptor=
        new ArrayAdapter<String>( context: MainActivity.this,
            android.R.layout.simple_list_item_1,
            ttcontent);
    lw.setAdapter(adaptor);
}
```



Timers

- Threads
- Runnables
 - Bir olayı tekrarlı bir şekilde çalıştırmak için
 - Yada bir Countdown işlemi şeklinde 3,2,1,0 boom

First Timer App

- Bu uygulamda bir görsel arabirim yok
- Handler kullanılacak import Android.os
 - Handler bir çok yapabileceği şeyin yanında belirli bir kod parçacığının gecikmeli şekilde çalışmasını sağlar her 1 saniyede her 1.5 saniyede vb..
 - Bahsedilen kod parçacıkları Runnable interfaceini kullananmaldır.



```
9 public class MainActivity extends AppCompatActivity {
10
11     @Override
12     protected void onCreate(Bundle savedInstanceState) {
13         super.onCreate(savedInstanceState);
14         setContentView(R.layout.activity_main);
15         final Handler myHandler= new Handler();
16         Runnable myrun = new Runnable() {
17             @Override
18             public void run() {
19
20                 Log.d( tag: "sonuc", msg: "Bir saniye geçti"
21                     myHandler.postDelayed( r: this, delayMillis:
22                         //Burada kendi kendini çalıştırıyor.
23                     );
24             };
25             myHandler.post(myrun); // anında çalıştırır
26         }
27     }
28 }
```

MainActivity > onCreate() > new Runnable > run()

.kasapbasi.timer1week7 (2853)

Verbose



org.kasapbasi.timer1week7 D/sonuc: Bir saniye geçti

org.kasapbasi.timer1week7 D/sonuc: Bir saniye geçti

org.kasapbasi.timer1week7 D/sonuc: Bir saniye geçti



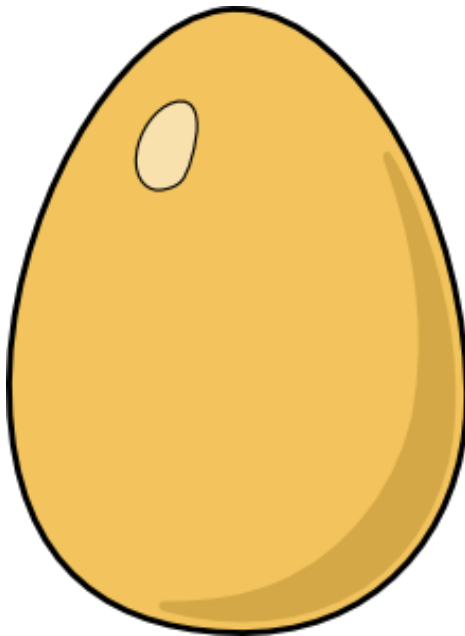
CountDownTimer

```
final CountDownTimer countDownTimer = new CountDownTimer( millisInFuture: 10000, countDownInterval: 1000) {  
    /**  
     * Callback fired on regular interval.  
     *  
     * @param millisUntilFinished The amount of time until finished.  
     */  
    @Override  
    public void onTick(long millisUntilFinished) {  
        Log.d( tag: "Tick", msg: "Countdown in progres "+(10000-millisUntilFinished)/1000+"left");  
    }  
  
    /**  
     * Callback fired when the time is up.  
     */  
    @Override  
    public void onFinish() { Log.d( tag: "Fin", msg: "Countdown fini"); }  
};  
countDownTimer.start();
```

```
openjdk.jdk9 swing behavior 2  
/Tick: Countdown in progres 1left  
/Tick: Countdown in progres 2left  
/Tick: Countdown in progres 3left  
/Tick: Countdown in progres 4left  
/Tick: Countdown in progres 5left  
/Tick: Countdown in progres 6left  
/Tick: Countdown in progres 7left  
/Tick: Countdown in progres 8left  
/Tick: Countdown in progres 9left  
/Fin: Countdown finished
```

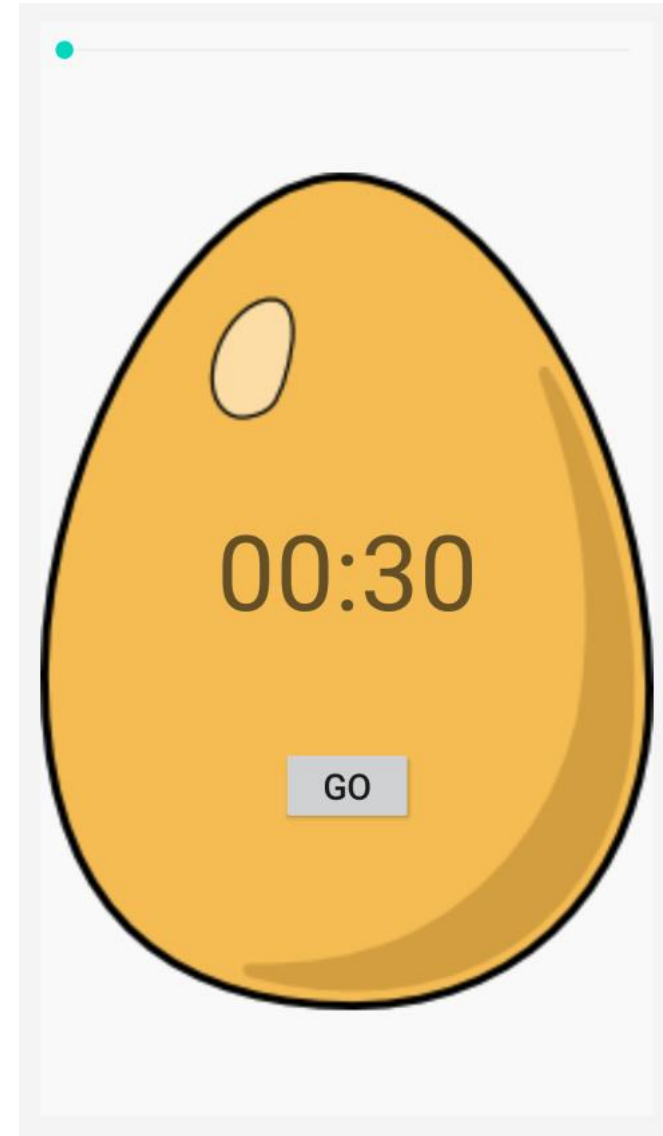
Egg Timer

- www.Clipartpanda.com free cliparts
- www.Soundbible.com free sounds
 - Res folder içinde yeni bir raw folder açılır ve içine ses dosyası gönderilir.
 - Drawable içine resim dosyası gönderilir.



layout

- <https://github.com/mckasap/EggTimerWeek7.git>





```
public class MainActivity extends AppCompatActivity {  
    SeekBar sb;  
    TextView tv;  
    Button btn;  
    boolean CounterIsActive=false;  
    CountdownTimer str;
```



@Override

```
protected void onCreate(Bundle savedInstanceState) {  
    super.onCreate(savedInstanceState);  
    setContentView(R.layout.activity_main);  
    sb=(SeekBar)findViewById(R.id.timerSeekBar);  
    sb.setMax(600); //10 dakika için  
    sb.setMin(1);  
    sb.setProgress(30);  
    btn=(Button)findViewById(R.id.btnController);  
  
    tv= (TextView)findViewById(R.id.tvTimer);
```

```

    tv= (TextView)findViewById(R.id.tvTimer);
    sb.setOnSeekBarChangeListener(new SeekBar.OnSeekBarChangeListener() {
        @Override
        public void onProgressChanged(SeekBar seekBar, int progress, boolean fromUser) {

            //ilk önce saniyeden dakika ve saniyeye dönüştürmek

            progressTimer(progress);
        }

        @Override
        public void onStartTrackingTouch(SeekBar seekBar) {

        }

        @Override
        public void onStopTrackingTouch(SeekBar seekBar) {

        }
    });
}

private void progressTimer(int progress) {
    int minute;
    int seconds;
    minute= progress /60;
    seconds= progress-60*minute;
    String secondStr=Integer.toString(seconds);
    if(secondStr.equals("0"))
        secondStr="00";
    if(secondStr.length()<2)
        secondStr="0" +secondStr;
    tv.setText(Integer.toString(minute)+":"+secondStr);
}

```



Play Sound



```
// int resID=getResources().getIdentifier("airhorn.mp3", "raw", getPackageName());  
  
MediaPlayer mp= MediaPlayer.create(context: MainActivity.this,R.raw.airhorn);  
  
mp.start();
```