

Ex 7. Progress bar and progress dialog

```
<?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="cocomo.lab.ex7_main">
    <EditText
        android:id="@+id/et_time"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="time (in secs)"
        android:inputType="number"/>
    <Button
        android:id="@+id/bt_sleep"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/et_time"
        android:text="SLEEP"
        android:layout_centerHorizontal="true"/>
    <ProgressBar
        android:id="@+id/pbar"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/bt_sleep"
        android:layout_marginLeft="50dp"
        android:layout_marginRight="50dp"
        style="@style/Widget.AppCompat.ProgressBar.Horizontal"/>
    <Button
        android:id="@+id/bt_start"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/pbar"
        android:text="START"
        android:layout_centerHorizontal="true"/>
</RelativeLayout>
```

```
package cocomo.lab;
import android.app.ProgressDialog;
import android.content.res.ColorStateList;
import android.graphics.Color;
import android.os.Build;
import android.os.Handler;
import android.support.annotation.RequiresApi;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.ProgressBar;
public class ex7_main extends AppCompatActivity {
    ProgressBar pbar;
    Handler handler;
    int i;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.ex7_main);
        Button bt_sleep=findViewById(R.id.bt_sleep);
        final Button bt_start=findViewById(R.id.bt_start);
```

```

pbar=findViewById(R.id.pbar);
handler=new Handler();
bt_sleep.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        final ProgressDialog pd=new ProgressDialog(ex7_main.this);
        pd.setTitle("Sleep in Progress");
        pd.setMessage("Started");
        pd.show();
        EditText et_time=findViewById(R.id.et_time);
        int count=Integer.parseInt(et_time.getEditableText().toString());
        new Handler().postDelayed(new Runnable() {
            @Override
            public void run() {
                pd.dismiss();
            }
        },count*1000);
    }
});
bt_start.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        new Thread(new Runnable() {
            @Override
            public void run() {
                for(i=0;i<=100;i+=10){
                    if(i==100){
                        handler.post(new Runnable() {
                            @Override
                            public void run() {
                                pbar.setProgressTintList(ColorStateList.valueOf(Color.GREEN));
                                bt_start.setText("FINISH");
                            }
                        });
                    }
                    pbar.setProgress(i);
                    try{
                        Thread.sleep(100);
                    }
                    catch (Exception e){
                        e.printStackTrace();
                    }
                }
            }
        }).start();
    }
});
}
}
}

```

