SOURCE

Splash Screen

```
package com.example.marbleapp;

import android.app.Activity;
import android.content.Context;
import android.content.Intent;
import android.content.pm.ActivityInfo;
import android.os.Bundle;
import android.view.MotionEvent;
import android.view.Window;
import android.view.WindowManager;

public class SplashScreen extends Activity{
        final Context context = this;
        // how long until we go to the next activity
        protected int _splashTime = 1000;

        private Thread splashTread;

        /** Called when the activity is first created. */
        @Override
        public void onCreate(Bundle savedInstanceState){
                 requestWindowFeature(Window.FEATURE_NO_TITLE);

getWindow().setFlags(WindowManager.LayoutParams.FLAG_FULLSCREEN,

WindowManager.LayoutParams.FLAG_FULLSCREEN);
                super.onCreate(savedInstanceState);



                setContentView(R.layout.splashscreen);

                // final SplashScreen sPlashScreen = this;

        setRequestedOrientation(ActivityInfo.SCREEN_ORIENTATION_POR
TRAIT);
```

```java
                //setLanguage();

                // thread for displaying the SplashScreen
                splashTread = new Thread(){
                        @Override
                        public void run(){
                                try {

                                } catch (Exception e) {
                                        // TODO: handle exception
                                }
                                try{
                                        synchronized(this){
                                                wait(_splashTime);
                                        }

                                }catch(InterruptedException e){
                                }finally{

                                        Intent i = new Intent();
                                        i.setClass(context,
MainActivity.class);

                                        startActivity(i);

                                        finish();
                                }
                        }
                };

                splashTread.start();
        }

        // Function that will handle the touch
        @Override
        public boolean onTouchEvent(MotionEvent event){
                if(event.getAction() == MotionEvent.ACTION_DOWN){
                        synchronized(splashTread){
                                splashTread.notifyAll();
                        }
                }
                return true;
        }
}
```

Main Class

```
package com.example.marbleapp;

import android.app.Activity;
import android.app.AlertDialog;
import android.content.DialogInterface;
import android.content.Intent;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import android.view.Window;
import android.view.WindowManager;
import android.view.View.OnClickListener;
import android.widget.Button;


public class MainActivity extends Activity {
        Activity activity;
        Button btnPembuat, btnClose, btnMulai;

   @Override
   protected void onCreate(Bundle savedInstanceState) {
      super.onCreate(savedInstanceState);

         getWindow().setFlags(WindowManager.LayoutParams.FLAG_FULLS
CREEN,
         WindowManager.LayoutParams.FLAG_FULLSCREEN);
requestWindowFeature(Window.FEATURE_NO_TITLE);
      setContentView(R.layout.activity_main);

      btnPembuat = (Button) findViewById(R.id.pembuats);
      btnPembuat.setOnClickListener(new OnClickListener() {

                     public void onClick(View arg0) {
                             // TODO Auto-generated method stub
                             Intent intent=new
Intent(MainActivity.this,PembuatActivity.class);
//                            intent.putExtra("name", name);
                             startActivity(intent);
                             finish();
                     }
```

```java
                        });
    btnClose = (Button) findViewById(R.id.close);
    btnClose.setOnClickListener(new OnClickListener() {

                            @Override
                            public void onClick(View arg0) {
                                    // TODO Auto-generated method stub
                                    onDestroy();
                            }
                    });
    btnMulai = (Button) findViewById(R.id.mulais);
    btnMulai.setOnClickListener(new OnClickListener() {

                            @Override
                            public void onClick(View v) {
                                    // TODO Auto-generated method stub
                                    Intent intent=new
Intent(MainActivity.this,ClassActivity.class);
//                                     intent.putExtra("name", name);
                                    startActivity(intent);
                                    finish();
                            }
                    });
  }

        public void onDestroy() {
    super.onDestroy();

    /*
     * Notify the system to finalize and collect all objects of the
     * application on exit so that the process running the application can
     * be killed by the system without causing issues. NOTE: If this is set
     * to true then the process will not be killed until all of its threads
     * have closed.
     */


    /*
     * Force the system to close the application down completely instead of
     * retaining it in the background. The process that runs the application
     * will be killed. The application will be completely created as a new
     * application in a new process if the user starts the application
     * again.
```

```java
        */
    finish();



    }

    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        // Inflate the menu; this adds items to the action bar if it is present.
        getMenuInflater().inflate(R.menu.main, menu);
        return true;
    }

    @Override
    public boolean onOptionsItemSelected(MenuItem item) {
        // Handle action bar item clicks here. The action bar will
        // automatically handle clicks on the Home/Up button, so long
        // as you specify a parent activity in AndroidManifest.xml.
        int id = item.getItemId();
        if (id == R.id.action_settings) {
            return true;
        }
        return super.onOptionsItemSelected(item);
    }
        @Override
        public void onBackPressed() {
                    AlertDialog.Builder builder = new AlertDialog.Builder(this);
                    builder.setMessage("Tutup Aplikasi Marble?")
                    .setCancelable(false)
                    .setPositiveButton("Ya", new
DialogInterface.OnClickListener() {
                            @Override
                            public void onClick(DialogInterface dialog, int id) {
                                    Intent keluar = new
Intent(Intent.ACTION_MAIN);

        keluar.addCategory(Intent.CATEGORY_HOME);

        keluar.setFlags(Intent.FLAG_ACTIVITY_NEW_TASK);
//                                      stop_intro();
                                        finish();
                                        startActivity(keluar);
```

```
                                }
                })
                .setNegativeButton("Tidak",
                                        new DialogInterface.OnClickListener() {
                                @Override
                                public void onClick(DialogInterface dialog, int id) {
                                        dialog.cancel();
                                }
                }).show();
        }
}
```

Pengenalan Angka 1

```
package com.example.hellonumbers;

import android.app.Activity;
import android.app.AlertDialog;
import android.content.Intent;
import android.media.MediaPlayer;
import android.os.Bundle;
import android.view.View;
import android.view.Window;
import android.view.WindowManager;
import android.widget.ImageButton;
import com.example.marbleapp.R;

public class S01Activity extends Activity implements
MediaPlayer.OnCompletionListener {
        private ImageButton tombol_suara;
        private MediaPlayer MPlayer;

        @Override
        protected void onCreate(Bundle savedInstanceState) {
                super.onCreate(savedInstanceState);

        getWindow().setFlags(WindowManager.LayoutParams.FLAG_FULLS
CREEN,

        WindowManager.LayoutParams.FLAG_FULLSCREEN);
                requestWindowFeature(Window.FEATURE_NO_TITLE);
```

```java
                setContentView(R.layout.activity_s01);
                tombol_suara = (ImageButton) findViewById(R.id.play);
                aktif();
                tombol_suara.setOnClickListener(new
View.OnClickListener() {
                        @Override
                        public void onClick(View view) {
                                play();
                        }
                });
        }

        @Override
        public void onCompletion(MediaPlayer MP) {
                stop();
        }

        private void play() {
                stop();
                MPlayer.start();

        tombol_suara.setImageResource(R.drawable.item_01_spell_2);
                tombol_suara.setEnabled(false);
        }

        private void stop() {
                MPlayer.stop();

        tombol_suara.setImageResource(R.drawable.item_01_spell_1);
                try {
                        MPlayer.prepare();
                        MPlayer.seekTo(0);
                        tombol_suara.setEnabled(true);
                } catch (Throwable t) {
                        error_(t);
                }
        }

        private void buka_file_suara() {
                try {
                        MPlayer = MediaPlayer.create(this, R.raw.s01);
                        MPlayer.setOnCompletionListener(this);
                } catch (Throwable t) {
```

```
                              error_(t);
                 }
         }

         private void aktif() {
                 buka_file_suara();
                 tombol_suara.setEnabled(true);
         }

         private void error_(Throwable t) {
                 AlertDialog.Builder pesan_error = new
AlertDialog.Builder(this);
                 pesan_error.setTitle("Failed!").setMessage(t.toString())
                 .setPositiveButton("OK", null).show();
                 @Override
         public void onBackPressed() {
                 Intent panggil_class = new Intent(this, Menu_utama.class);
                 startActivity(panggil_class);
                 finish();
         }
}
```

Pembagian

```
package com.example.letscount;

import android.app.Activity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.view.Window;
import android.view.WindowManager;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemSelectedListener;
import android.widget.ArrayAdapter;
import android.widget.ImageButton;
import android.widget.Spinner;

import com.example.marbleapp.R;

public class BagiActivity extends Activity {
```

```java
        public int nilai_01, nilai_02, nilai_03, nilai_04, nilai_05, nilai_06,
        nilai_07, nilai_08, nilai_09, nilai_10, jumlah_nilai;
        public static int nilai = 0;
        public Spinner menu_jawab_01, menu_jawab_02, menu_jawab_03,
menu_jawab_04,
        menu_jawab_05, menu_jawab_06, menu_jawab_07, menu_jawab_08,
        menu_jawab_09, menu_jawab_10;
        public ImageButton cek_nilai;
        public static int nilai_total = 0;
        public String jawaban, hasil_jawaban, isi_jawaban;
        public static String data_jawaban = "";
        int[] kunci = { 2, 1, 1, 2, 2, 1, 1, 1, 1, 2 };
        int[] soal = { 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 };

        String[] jawaban_01 = { " Pilih jawaban", "A. 8", "B. 6" };
        String[] jawaban_02 = { " Pilih jawaban", "A. 1", "B. 6" };
        String[] jawaban_03 = { " Pilih jawaban", "A. 4", "B. 8" };
        String[] jawaban_04 = { " Pilih jawaban", "A. 7", "B. 5" };
        String[] jawaban_05 = { " Pilih jawaban", "A. 9", "B. 3" };
        String[] jawaban_06 = { " Pilih jawaban", "A. 1", "B. 2" };
        String[] jawaban_07 = { " Pilih jawaban", "A. 2", "B. 4" };
        String[] jawaban_08 = { " Pilih jawaban", "A. 2", "B. 3" };
        String[] jawaban_09 = { " Pilih jawaban", "A. 2", "B. 1" };
        String[] jawaban_10 = { " Pilih jawaban", "A. 0", "B. ∞" };

        @Override
        protected void onCreate(Bundle savedInstanceState) {
                super.onCreate(savedInstanceState);

        getWindow().setFlags(WindowManager.LayoutParams.FLAG_FULLS
CREEN,

        WindowManager.LayoutParams.FLAG_FULLSCREEN);
                requestWindowFeature(Window.FEATURE_NO_TITLE);
                setContentView(R.layout.activity_bagi);

                //list option jawaban bagi
                menu_jawab_01 = (Spinner) findViewById(R.id.jwb_01);
                menu_jawab_02 = (Spinner) findViewById(R.id.jwb_02);
                menu_jawab_03 = (Spinner) findViewById(R.id.jwb_03);
                menu_jawab_04 = (Spinner) findViewById(R.id.jwb_04);
                menu_jawab_05 = (Spinner) findViewById(R.id.jwb_05);
                menu_jawab_06 = (Spinner) findViewById(R.id.jwb_06);
```

```java
                        menu_jawab_07 = (Spinner) findViewById(R.id.jwb_07);
                        menu_jawab_08 = (Spinner) findViewById(R.id.jwb_08);
                        menu_jawab_09 = (Spinner) findViewById(R.id.jwb_09);
                        menu_jawab_10 = (Spinner) findViewById(R.id.jwb_10);
                        cek_nilai = (ImageButton) findViewById(R.id.Btn_check);

                        //jawaban soal 1 pembagian
                        ArrayAdapter<String> list_jawab_01 = new
ArrayAdapter<String>(this,
                                        android.R.layout.simple_spinner_item,
jawaban_01);
                        list_jawab_01

        .setDropDownViewResource(android.R.layout.simple_spinner_dropdo
wn_item);
                        menu_jawab_01.setAdapter(list_jawab_01);
                        menu_jawab_01.setOnItemSelectedListener(new
OnItemSelectedListener() {
                                @Override
                                public void onItemSelected(AdapterView<?> arg0,
View arg1,
                                                int arg2, long arg3) {
                                        nilai_01 =
menu_jawab_01.getSelectedItemPosition();
                                }

                                @Override
                                public void onNothingSelected(AdapterView<?>
arg0) {
                                }
                        });
                        //jawaban soal 2 pembagian
                        ArrayAdapter<String> list_jawab_02 = new
ArrayAdapter<String>(this,
                                        android.R.layout.simple_spinner_item,
jawaban_02);
                        list_jawab_02

        .setDropDownViewResource(android.R.layout.simple_spinner_dropdo
wn_item);
                        menu_jawab_02.setAdapter(list_jawab_02);
                        menu_jawab_02.setOnItemSelectedListener(new
OnItemSelectedListener() {
```

```java
                                @Override
                                public void onItemSelected(AdapterView<?> arg0,
View arg1,
                                            int arg2, long arg3) {
                                        nilai_02 =
menu_jawab_02.getSelectedItemPosition();
                                }

                                @Override
                                public void onNothingSelected(AdapterView<?>
arg0) {

                                }
                });
                //jawaban soal 3 pembagian
                ArrayAdapter<String> list_jawab_03 = new
ArrayAdapter<String>(this,
                                        android.R.layout.simple_spinner_item,
jawaban_03);
                list_jawab_03

        .setDropDownViewResource(android.R.layout.simple_spinner_dropdo
wn_item);
                menu_jawab_03.setAdapter(list_jawab_03);
                menu_jawab_03.setOnItemSelectedListener(new
OnItemSelectedListener() {
                        @Override
                        public void onItemSelected(AdapterView<?> arg0,
View arg1,
                                            int arg2, long arg3) {
                                        nilai_03 =
menu_jawab_03.getSelectedItemPosition();
                                }

                                @Override
                                public void onNothingSelected(AdapterView<?>
arg0) {

                                }
                });
                //jawaban soal 4 pembagian
                ArrayAdapter<String> list_jawab_04 = new
ArrayAdapter<String>(this,
                                        android.R.layout.simple_spinner_item,
jawaban_04);
```

```java
                        list_jawab_04

            .setDropDownViewResource(android.R.layout.simple_spinner_dropdo
wn_item);
                        menu_jawab_04.setAdapter(list_jawab_04);
                        menu_jawab_04.setOnItemSelectedListener(new
OnItemSelectedListener() {
                                @Override
                                public void onItemSelected(AdapterView<?> arg0,
View arg1,
                                                int arg2, long arg3) {
                                        nilai_04 =
menu_jawab_04.getSelectedItemPosition();
                                }

                                @Override
                                public void onNothingSelected(AdapterView<?>
arg0) {

                                }
                        });
                        //jawaban soal 5 pembagian
                        ArrayAdapter<String> list_jawab_05 = new
ArrayAdapter<String>(this,
                                        android.R.layout.simple_spinner_item,
jawaban_05);
                        list_jawab_05

            .setDropDownViewResource(android.R.layout.simple_spinner_dropdo
wn_item);
                        menu_jawab_05.setAdapter(list_jawab_05);
                        menu_jawab_05.setOnItemSelectedListener(new
OnItemSelectedListener() {
                                @Override
                                public void onItemSelected(AdapterView<?> arg0,
View arg1,
                                                int arg2, long arg3) {
                                        nilai_05 =
menu_jawab_05.getSelectedItemPosition();
                                }

                                @Override
                                public void onNothingSelected(AdapterView<?>
arg0) {
```

```java
                                }
                        });
                        //jawaban soal 6 pembagian
                        ArrayAdapter<String> list_jawab_06 = new
ArrayAdapter<String>(this,
                                        android.R.layout.simple_spinner_item,
jawaban_06);
                        list_jawab_06

        .setDropDownViewResource(android.R.layout.simple_spinner_dropdo
wn_item);
                        menu_jawab_06.setAdapter(list_jawab_06);
                        menu_jawab_06.setOnItemSelectedListener(new
OnItemSelectedListener() {
                                @Override
                                public void onItemSelected(AdapterView<?> arg0,
View arg1,
                                                int arg2, long arg3) {
                                        nilai_06 =
menu_jawab_06.getSelectedItemPosition();
                                }

                                @Override
                                public void onNothingSelected(AdapterView<?>
arg0) {

                                }
                        });
                        //jawaban soal 7 pembagian
                        ArrayAdapter<String> list_jawab_07 = new
ArrayAdapter<String>(this,
                                        android.R.layout.simple_spinner_item,
jawaban_07);
                        list_jawab_07

        .setDropDownViewResource(android.R.layout.simple_spinner_dropdo
wn_item);
                        menu_jawab_07.setAdapter(list_jawab_07);
                        menu_jawab_07.setOnItemSelectedListener(new
OnItemSelectedListener() {
                                @Override
                                public void onItemSelected(AdapterView<?> arg0,
View arg1,
                                                int arg2, long arg3) {
```

```java
                                nilai_07 =
menu_jawab_07.getSelectedItemPosition();
                        }

                        @Override
                        public void onNothingSelected(AdapterView<?>
arg0) {

                        }
                });
                //jawaban soal 8 pembagian
                ArrayAdapter<String> list_jawab_08 = new
ArrayAdapter<String>(this,
                                android.R.layout.simple_spinner_item,
jawaban_08);
                list_jawab_08

        .setDropDownViewResource(android.R.layout.simple_spinner_dropdo
wn_item);
                menu_jawab_08.setAdapter(list_jawab_08);
                menu_jawab_08.setOnItemSelectedListener(new
OnItemSelectedListener() {
                        @Override
                        public void onItemSelected(AdapterView<?> arg0,
View arg1,
                                        int arg2, long arg3) {
                                nilai_08 =
menu_jawab_08.getSelectedItemPosition();
                        }

                        @Override
                        public void onNothingSelected(AdapterView<?>
arg0) {

                        }
                });
                //jawaban soal 9 pembagian
                ArrayAdapter<String> list_jawab_09 = new
ArrayAdapter<String>(this,
                                android.R.layout.simple_spinner_item,
jawaban_09);
                list_jawab_09

        .setDropDownViewResource(android.R.layout.simple_spinner_dropdo
wn_item);
```

```java
                    menu_jawab_09.setAdapter(list_jawab_09);
                    menu_jawab_09.setOnItemSelectedListener(new
OnItemSelectedListener() {
                            @Override
                            public void onItemSelected(AdapterView<?> arg0,
View arg1,
                                        int arg2, long arg3) {
                                    nilai_09 =
menu_jawab_09.getSelectedItemPosition();
                            }

                            @Override
                            public void onNothingSelected(AdapterView<?>
arg0) {
                            }
                    });
                    //jawaban soal 10 pembagian
                    ArrayAdapter<String> list_jawab_10 = new
ArrayAdapter<String>(this,
                                        android.R.layout.simple_spinner_item,
jawaban_10);
                    list_jawab_10

        .setDropDownViewResource(android.R.layout.simple_spinner_dropdo
wn_item);
                    menu_jawab_10.setAdapter(list_jawab_10);
                    menu_jawab_10.setOnItemSelectedListener(new
OnItemSelectedListener() {
                            @Override
                            public void onItemSelected(AdapterView<?> arg0,
View arg1,
                                        int arg2, long arg3) {
                                    nilai_10 =
menu_jawab_10.getSelectedItemPosition();
                            }

                            @Override
                            public void onNothingSelected(AdapterView<?>
arg0) {
                            }
                    });
        }
```

```java
        //check hasil dari soal pembagian
        public void btn_check_Clicked(View v) {
                int pilihan_jawaban[] = { nilai_01, nilai_02, nilai_03,
nilai_04,
                                nilai_05, nilai_06, nilai_07, nilai_08,
nilai_09, nilai_10 };
                int nomor_pilihan;

                for (int i = 0; i < kunci.length; i++) {
                        if (pilihan_jawaban[i] == 1) {
                                jawaban = " A ";
                        } else if (pilihan_jawaban[i] == 2) {
                                jawaban = " B ";
                        } else {
                                jawaban = " - ";
                        }
                        if (kunci[i] == 1) {
                                isi_jawaban = "A";
                        } else if (kunci[i] == 2) {
                                isi_jawaban = "B";
                        } else {
                                isi_jawaban = "Tidak dijawab";
                        }
                        if (pilihan_jawaban[i] == kunci[i]) {
                                nilai_total = nilai_total + 10;
                                hasil_jawaban = jawaban + " (Benar) = "
+ isi_jawaban
                                                + ",   (Nilai = 10)\n";
                        } else {
                                hasil_jawaban = jawaban + " (Salah) = " +
isi_jawaban
                                                + ",   (Nilai = 0)\n";
                        }
                        nomor_pilihan = i + 1;
                        data_jawaban = data_jawaban +
Integer.toString(nomor_pilihan)
                                        + ". " + hasil_jawaban;
                }
                Intent panggil_class = new Intent(this,
HasilBagiActivity.class);
                panggil_class.putExtra("nilai_hasil", nilai_total);
                panggil_class.putExtra("rinci_jawaban", data_jawaban);
                startActivity(panggil_class);
```

```
                finish();
                System.exit(0);
        }

        //fungsi back dalam android
        @Override
        public void onBackPressed() {
                Intent panggil_class = new Intent(this,
Menu_utama_count.class);
                startActivity(panggil_class);
                finish();
        }

}
```

Bangun Datar

```
package com.example.bangundatar;
import android.app.Activity;
import android.content.Intent;
import android.os.Bundle;
import android.view.Window;
import android.view.WindowManager;
import android.widget.Button;

import com.example.marbleapp.R;

public class LayangLayangActivity extends Activity {
        Activity activity;
        Button btnBangDatar, btnOpBil, btnPengAngka;

        @Override
        protected void onCreate(Bundle savedInstanceState) {
                super.onCreate(savedInstanceState);

        getWindow().setFlags(WindowManager.LayoutParams.FLAG_FULLS
CREEN,

        WindowManager.LayoutParams.FLAG_FULLSCREEN);
                requestWindowFeature(Window.FEATURE_NO_TITLE);
                setContentView(R.layout.activity_layang);
        }
```

```java
        public void onBackPressed() {

                Intent setIntent = new
Intent(LayangLayangActivity.this,MainBangunDatar.class);

                startActivity(setIntent);
                finish();
        }


}
```