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HelloSharedPrefs



String.xml

Activities_main.xml

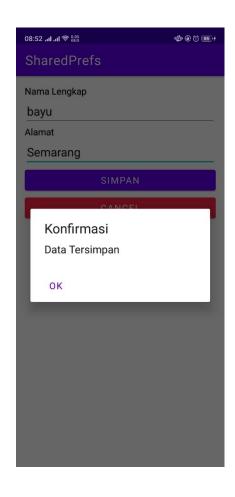
```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    xmlns:tools="http://schemas.android.com/tools"
    android:layout width="match parent"
    android:layout height="match parent"
    android:orientation="vertical"
    android:paddingBottom="@dimen/activity vertical margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context="com.example.android.hellosharedprefs.MainActivity">
    <TextView
        android:id="@+id/count textview"
        android:layout width="match parent"
        android:layout height="0dp"
        android: layout weight="60"
        android:background="@color/default background"
        android:gravity="center"
        android:text="@string/default count"
        android:textColor="@android:color/white"
        android:textSize="112sp" />
    <LinearLayout</pre>
        android:layout width="match parent"
        android:layout height="0dp"
        android: layout marginBottom="@dimen/activity vertical margin"
        android:layout marginTop="@dimen/activity vertical margin"
        android: layout weight="10"
        android:orientation="horizontal">
        <Button
            android:id="@+id/black background button"
            style="@style/AppTheme.Button.Colored"
            android:background="@android:color/black"
            android: onClick="changeBackground"
            android:text="@string/black button" />
        <Button
            android:id="@+id/red background button"
            style="@style/AppTheme.Button.Colored"
            android:background="@color/red background"
            android:onClick="changeBackground"
            android:text="@string/red_button" />
        <Button
            android:id="@+id/blue background button"
            style="@style/AppTheme.Button.Colored"
            android:background="@color/blue background"
            android: onClick="changeBackground"
            android:text="@string/blue button" />
        <Button
            android:id="@+id/green background button"
            style="@style/AppTheme.Button.Colored"
            android:background="@color/green_background"
            android: onClick="changeBackground"
            android:text="@string/green button" />
    </LinearLayout>
    <LinearLayout</pre>
        android:layout width="match parent"
        android:layout height="0dp"
        android: layout weight="10"
```

```
android:gravity="center"
        android:orientation="horizontal">
        <Button
            android:id="@+id/count button"
            style="@style/AppTheme.Button"
            android:layout marginRight="@dimen/activity horizontal margin"
            android:layout_marginEnd="@dimen/activity_horizontal margin"
            android: onClick="countUp"
            android:text="@string/count button" />
        <Button
            android:id="@+id/reset button"
            style="@style/AppTheme.Button"
            android:onClick="reset"
            android:text="@string/reset button" />
    </LinearLayout>
</LinearLayout>
MainActivity.java
package com.example.android.hellosharedprefs;
import android.content.SharedPreferences;
import android.graphics.drawable.ColorDrawable;
import android.support.v4.content.ContextCompat;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
    // Current count.
   private int mCount = 0;
    // Current background color.
   private int mColor;
    // Text view to display both count and color.
    private TextView mShowCountTextView;
    // Key for current count
   private final String COUNT KEY = "count";
    // Key for current color
   private final String COLOR KEY = "color";
    // Shared preferences object
   private SharedPreferences mPreferences;
    // Name of shared preferences file
   private static final String mSharedPrefFile =
"com.example.android.hellosharedprefs";
    @Override
    protected void onCreate (Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        // Initialize views, color, preferences
        mShowCountTextView = (TextView) findViewById(R.id.count textview);
        mColor = ContextCompat.getColor(this, R.color.default background);
        mPreferences = getSharedPreferences(mSharedPrefFile, MODE PRIVATE);
        // Restore preferences
        mCount = mPreferences.getInt(COUNT_KEY, 0);
```

```
mShowCountTextView.setText(String.format("%s", mCount));
       mColor = mPreferences.getInt(COLOR KEY, mColor);
       mShowCountTextView.setBackgroundColor(mColor);
   @Override
   protected void onPause() {
        super.onPause();
        SharedPreferences.Editor preferencesEditor = mPreferences.edit();
        preferencesEditor.putInt(COUNT KEY, mCount);
       preferencesEditor.putInt(COLOR_KEY, mColor);
       preferencesEditor.apply();
    }
   public void changeBackground(View view) {
        int color = ((ColorDrawable) view.getBackground()).getColor();
       mShowCountTextView.setBackgroundColor(color);
       mColor = color;
   public void countUp(View view) {
       mCount++;
       mShowCountTextView.setText(String.format("%s", mCount));
   public void reset(View view) {
        // Reset count
       mCount = 0;
       mShowCountTextView.setText(String.format("%s", mCount));
       mColor = ContextCompat.getColor(this, R.color.default_background);
       mShowCountTextView.setBackgroundColor(mColor);
        // Clear preferences
        SharedPreferences.Editor preferencesEditor = mPreferences.edit();
       preferencesEditor.clear();
       preferencesEditor.apply();
   }
}
```

SharedPrefs





String.xml

Activities main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:layout_marginHorizontal="15dp"
    android:layout_marginVertical="15dp"
    tools:context=".MainActivity">

<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"</pre>
```

```
android:id="@+id/txtnama"
        android:textColor="@color/black"
        android:text="@string/txt nama"/>
   <EditText
        android:id="@+id/inp nama"
        android:layout width="match parent"
        android:layout height="wrap content"
        android:hint="@string/hint nama"/>
   <TextView
        android:layout_width="match_parent"
        android:layout height="wrap_content"
        android:id="@+id/txtalamat"
        android:textColor="@color/black"
        android:text="@string/txt alamat"/>
    <EditText
        android:id="@+id/inp alamat"
        android:layout width="match parent"
        android:layout height="wrap content"
        android:hint="@string/hint alamat"/>
    <But.ton
       android:id="@+id/btn simpan"
        android:layout width="match parent"
        android:layout height="wrap content"
        android:text="@string/btn simpan"
        android:onClick="simpan"/>
   <Button
       android:id="@+id/btn cancel"
        android:layout width="match parent"
        android:layout height="wrap content"
        android:text="@string/btn cancel"
        android:backgroundTint="@color/red"
        android:onClick="batal"/>
</LinearLayout>
```

MainActivity.java

```
package com.example.sharedprefs;
import androidx.appcompat.app.AppCompatActivity;
import android.app.Activity;
import android.app.AlarmManager;
import android.app.AlertDialog;
import android.content.DialogInterface;
import android.content.SharedPreferences;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
    TextView txtNama, txtAlamat;
    private SharedPreferences mPrefenrences;
```

```
private static final String mSharedPredFile =
"com.a71b.belajarsharedprefs";
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        txtNama = (EditText) findViewById(R.id.inp nama);
        txtAlamat = (EditText) findViewById(R.id.inp alamat);
    public void simpan(View view) {
       mPrefenrences = getSharedPreferences(mSharedPredFile,
Activity.MODE PRIVATE);
        SharedPreferences.Editor editor = mPrefenrences.edit();
        editor.putString("namaku", txtNama.getText().toString());
        editor.putString("alamatku", txtAlamat.getText().toString());
        editor.commit();
        pesan();
    public void batal(View view) {
        txtAlamat.setText("");
        txtNama.setText("");
    private void pesan(){
        AlertDialog.Builder psn = new AlertDialog.Builder(this);
        psn.setTitle("Konfirmasi");
        psn.setMessage("Data Tersimpan");
        psn.setNeutralButton("OK", new DialogInterface.OnClickListener() {
            @Override
            public void onClick(DialogInterface dialog, int which) {
                Toast.makeText(getApplicationContext(), "Sukses simpan",
Toast.LENGTH SHORT).show();
        });
        psn.show();
    }
```

NoteInternal



String.xml

Activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginVertical="10dp"
    android:layout_marginHorizontal="10dp"
    android:orientation="vertical"
    tools:context=".MainActivity">
```

```
<TextView
        android:Layout_width="match parent"
        android:Layout height="wrap content"
        android:text="@string/txt_title" />
    <EditText
        android:id="@+id/inputText"
        android:Layout_width="match_parent"
        android:Layout height="180dp"
        android:gravity="top"/>
    <Button
        android:id="@+id/simpanIntern"
        android:Layout_width="match_parent"
        android:layout height="wrap content"
        android:text="@string/btn save"/>
    <Button
        android:id="@+id/loadIntern"
        android:layout width="match parent"
        android:layout_height="wrap_content"
        android:text="@string/btn read"/>
    <Button
        android:id="@+id/simpanExtern"
        android:Layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="@string/btn_saveSd"/>
    <Button
        android:id="@+id/loadExtern"
        android:Layout_width="match_parent"
        android:Layout height="wrap content"
        android:text="@string/btn_readSD"/>
</LinearLayout>
MainActivity.java
package com.example.noteinternal;
import androidx.appcompat.app.AppCompatActivity;
import android.media.MediaParser;
import android.os.Bundle;
import android.os.Environment;
import android.widget.Button;
import android.widget.EditText;
```

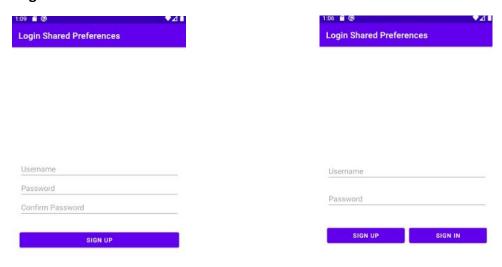
import android.widget.TextView;

```
import android.widget.Toast;
import java.io.BufferedReader;
import java.io.DataInputStream;
import java.io.File;
import java.io.FileInputStream;
import java.io.FileNotFoundException;
import java.io.FileOutputStream;
import java.io.IOException;
import java.io.InputStream;
import java.io.InputStreamReader;
import java.io.OutputStream;
import java.io.OutputStreamWriter;
import java.nio.charset.StandardCharsets;
import java.util.ArrayDeque;
public class MainActivity extends AppCompatActivity {
    EditText inputText;
    Button btnSimpanIntern, btnLoadInter, btnSimpanExtern, btnLoadExtern;
    File externalFile;
    String Data = "";
    static final int READ BLOCK SIZE = 100;
   @Override
   protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        inputText = findViewById(R.id.inputText);
        btnSimpanIntern = findViewById(R.id.simpanIntern);
        btnLoadInter = findViewById(R.id.LoadIntern);
        btnSimpanExtern = findViewById(R.id.simpanExtern);
        btnLoadExtern = findViewById(R.id.loadExtern);
        String path = this.getFilesDir().getAbsolutePath()+"/catatan.txt";
        File file = new File(path);
        btnSimpanIntern.setOnClickListener(view -> {
            if (inputText.getText().toString().isEmpty()){
                Toast.makeText(this, "Mohon masukkan catatan",
                        Toast.LENGTH_SHORT).show();
            }else{
                try {
                    FileOutputStream fileOut = openFileOutput("catatan.txt",
                            MODE PRIVATE);
                    OutputStreamWriter outputWriter = new
                            OutputStreamWriter(fileOut);
                    outputWriter.write(inputText.getText().toString());
                    outputWriter.close();
                    Toast.makeText(getBaseContext(), "Catatan berhasil
disimpan di "+path, Toast.LENGTH SHORT).show();
                    inputText.setText("");
                } catch (FileNotFoundException e) {
                    e.printStackTrace();
```

```
} catch (IOException e) {
                    e.printStackTrace();
            }
        });
        btnLoadInter.setOnClickListener(view -> {
            if (file.exists()){
                try {
                    FileInputStream fileIn = openFileInput("catatan.txt");
                    InputStreamReader inputRead = new
InputStreamReader(fileIn);
                    char[] inputBuffer = new char[READ BLOCK SIZE];
                    StringBuilder s = new StringBuilder();
                    int charRead;
                    while ((charRead = inputRead.read(inputBuffer)) > 0){
                        String readString =
String.copyValueOf(inputBuffer,0,charRead);
                        s.append(readString);
                    inputRead.close();
                    inputText.setText(s.toString());
                } catch (FileNotFoundException e) {
                    e.printStackTrace();
                } catch (IOException e) {
                    e.printStackTrace();
                }
            }else {
                Toast.makeText(this, "Anda belum menulis catatan",
Toast.LENGTH SHORT).show();
            }
        });
        if (!isExternalStorageAvailable() || isExternalStorageReadOnly()) {
            btnSimpanExtern.setEnabled(false);
        } else {
            String filename = "AndroidRion.txt";
            String filepath = "Penyimpanan_Aplikasi";
            externalFile = new File(getExternalFilesDir(filepath), filename);
        }
        btnSimpanExtern.setOnClickListener(view -> {
            if (inputText.getText().toString().isEmpty()){
                Toast.makeText(this, "Mohon masukkan Catatan",
Toast.LENGTH SHORT).show();
            }else{
                try {
                    FileOutputStream fos = new FileOutputStream(externalFile);
                    fos.write(inputText.getText().toString().getBytes());
                    fos.close();
```

```
Toast.makeText(getBaseContext(), "Catatan berhasil
disimpan " + externalFile, Toast.LENGTH SHORT).show();
                } catch (FileNotFoundException e) {
                    e.printStackTrace();
                } catch (IOException e) {
                    e.printStackTrace();
                }inputText.setText("");
            }
        });
        btnLoadExtern.setOnClickListener(view -> {
            try {
                FileInputStream fis = new FileInputStream(externalFile);
                DataInputStream in = new DataInputStream(fis);
                BufferedReader br = new BufferedReader(new
InputStreamReader(in));
                String strLine;
                while ((strLine = br.readLine()) != null){
                    Data = Data + strLine;
                in.close();
            } catch (FileNotFoundException e) {
                e.printStackTrace();
            } catch (IOException e) {
                e.printStackTrace();
            }inputText.setText(Data);
        });
    }
    private boolean isExternalStorageReadOnly() {
        String extStorageState = Environment.getExternalStorageState();
        return Environment.MEDIA_MOUNTED_READ_ONLY.equals(extStorageState);
    private boolean isExternalStorageAvailable() {
        String extStorageState = Environment.getExternalStorageState();
        return Environment.MEDIA_MOUNTED.equals(extStorageState);
}
```

RegisterSharedPref



Activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    xmlns:tools="http://schemas.android.com/tools"
    android:Layout_width="match_parent"
    android:Layout_height="match_parent"
    android:padding="30dp"
    tools:context=".MainActivity">
    <LinearLayout</pre>
        android:Layout width="match parent"
        android:Layout height="wrap content"
        android:orientation="vertical">
        <TextView
            android:Layout width="wrap content"
            android:Layout height="wrap content"
            android:textSize="20sp"
            android:text="Masuk sebagai"/>
        <TextView
            android:id="@+id/tv_namaMain"
            android:Layout width="wrap content"
            android:layout_height="wrap_content"
            android:textSize="30sp"
            tools:text="Namaku adalah"/>
    </LinearLayout>
    <Button
        android:id="@+id/button_logoutMain"
        android:layout_width="match_parent"
```

```
android:layout_height="wrap_content"
    android:layout_alignParentBottom="true"
    android:layout_marginTop="10dp"
    android:text="Log Out" />
</RelativeLayout>
```

Activity_login.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    xmlns:tools="http://schemas.android.com/tools"
    android:Layout width="match parent"
    android:Layout_height="match_parent"
    android:gravity="center"
    android:padding="18dp"
    android:orientation="vertical"
    tools:context=".LoginActivity">
        <EditText
            android:id="@+id/et_emailSignin"
            android:Layout width="match parent"
            android:Layout height="wrap content"
            android:hint="Username"
            android:inputType="textEmailAddress"
            android:maxLines="1"
            android:singleLine="true"
            android:imeOptions="actionNext"/>
        <EditText
            android:id="@+id/et passwordSignin"
            android:Layout width="match parent"
            android:Layout height="wrap content"
            android:Layout marginBottom="30dp"
            android:hint="Password"
            android:inputType="textPassword"
            android:maxLines="1"
            android:singleLine="true"
            android:imeActionId="6"
            android:imeActionLabel="Sign In"
            android:imeOptions="actionDone" />
        <LinearLayout</pre>
            android:Layout_width="match parent"
            android:Layout height="wrap content">
            <Button
                android:id="@+id/button_signupSignin"
                android: Layout width="0dp"
                android:Layout height="wrap content"
                android:text="Sign Up"
                android:layout weight="1"/>
            <Button
```

Activity_register.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    xmlns:tools="http://schemas.android.com/tools"
    android:layout width="match parent"
    android:Layout_height="match_parent"
    android:gravity="center"
    android:padding="18dp"
    android:orientation="vertical"
    tools:context=".RegisterActivity">
    <EditText
        android:id="@+id/et emailSignup"
        android:Layout_width="match_parent"
        android:Layout height="wrap content"
        android:hint="Username"
        android:inputType="textEmailAddress"
        android:maxLines="1"
        android:singleLine="true"
        android:imeOptions="actionNext"/>
    <EditText
        android:id="@+id/et passwordSignup"
        android:layout width="match parent"
        android:Layout height="wrap content"
        android:hint="Password"
        android:inputType="textPassword"
        android:maxLines="1"
        android:singleLine="true"
        android:imeOptions="actionNext"/>
    <EditText
        android:id="@+id/et_passwordSignup2"
        android:layout width="match parent"
        android:Layout height="wrap content"
        android:Layout marginBottom="30dp"
        android:hint="Confirm Password"
        android:inputType="textPassword"
        android:maxLines="1"
        android:singleLine="true"
        android:imeActionLabel="Sign Up"
        android:imeOptions="actionDone" />
```

```
<Button
        android:id="@+id/button signupSignup"
        android:layout width="match parent"
        android:Layout height="wrap content"
        android:text="Sign Up" />
</LinearLayout>
MainActivity.java
package fryctze.tutorial.preference;
import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
   @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        /* Deklarasi dan Menginisialisasi variable nama dengan Label Nama dari
Layout MainActivity */
        TextView nama = findViewById(R.id.tv namaMain);
        /* Men-set Label Nama dengan data User sedang login dari Preferences
        nama.setText(Preferences.getLoggedInUser(getBaseContext()));
       /* Men-set Status dan User yang sedang login menjadi default atau
kosong di
         * Data Preferences. Kemudian menuju ke LoginActivity*/
        findViewById(R.id.button LogoutMain).setOnClickListener(new
View.OnClickListener() {
            @Override
            public void onClick(View v) {
                //Menghapus Status Login dan kembali ke Login Activity
                Preferences.clearLoggedInUser(getBaseContext());
                startActivity(new
Intent(getBaseContext(), LoginActivity.class));
                finish();
            }
       });
   }
```

}

LoginActivity.java

```
package fryctze.tutorial.preference;
import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.text.TextUtils;
import android.view.KeyEvent;
import android.view.View;
import android.view.inputmethod.EditorInfo;
import android.widget.EditText;
import android.widget.TextView;
public class LoginActivity extends AppCompatActivity {
   private EditText mViewUser, mViewPassword;
   @Override
   protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_login);
        /* Menginisialisasi variable dengan Form User dan Form Password dari
Layout LoginActivity */
        mViewUser=findViewById(R.id.et_emailSignin);
        mViewPassword =findViewById(R.id.et passwordSignin);
        /* Menjalankan Method razia() Jika tombol SignIn di keyboard di sentuh
*/
        mViewPassword.setOnEditorActionListener(new
TextView.OnEditorActionListener() {
            @Override
           public boolean onEditorAction(TextView v, int actionId, KeyEvent
event) {
                if (actionId == EditorInfo.IME_ACTION_DONE | actionId ==
EditorInfo.IME NULL) {
                    razia();
                    return true;
                return false;
            }
        });
        /* Menjalankan Method razia() jika merasakan tombol SignIn disentuh */
        findViewById(R.id.button_signinSignin).setOnClickListener(new
View.OnClickListener() {
           @Override
           public void onClick(View v) {
                razia();
```

```
}
        });
        /* Ke RegisterActivity jika merasakan tombol SignUp disentuh */
        findViewById(R.id.button signupSignin).setOnClickListener(new
View.OnClickListener() {
            @Override
            public void onClick(View v) {
                startActivity(new
Intent(getBaseContext(), RegisterActivity.class));
        });
    }
    /** ke MainActivity jika data Status Login dari Data Preferences bernilai
true */
    @Override
    protected void onStart() {
        super.onStart();
        if (Preferences.getLoggedInStatus(getBaseContext())){
            startActivity(new Intent(getBaseContext(), MainActivity.class));
            finish();
        }
    }
    /** Men-check inputan User dan Password dan Memberikan akses ke
MainActivity */
    private void razia(){
        /* Mereset semua Error dan fokus menjadi default */
        mViewUser.setError(null);
        mViewPassword.setError(null);
        View fokus = null;
        boolean cancel = false:
        /* Mengambil text dari form User dan form Password dengan variable
baru bertipe String*/
        String user = mViewUser.getText().toString();
        String password = mViewPassword.getText().toString();
        /* Jika form user kosong atau TIDAK memenuhi kriteria di Method
cekUser() maka, Set error
         * di Form User dengan menset variable fokus dan error di Viewnya
juga cancel menjadi true*/
        if (TextUtils.isEmpty(user)){
            mViewUser.setError("This field is required");
            fokus = mViewUser:
            cancel = true;
        }else if(!cekUser(user)){
            mViewUser.setError("This Username is not found");
```

```
fokus = mViewUser;
            cancel = true;
        }
        /* Sama syarat percabangannya dengan User seperti di atas. Bedanya ini
untuk Form Password*/
        if (TextUtils.isEmpty(password)){
            mViewPassword.setError("This field is required");
            fokus = mViewPassword;
            cancel = true;
        }else if (!cekPassword(password)){
            mViewPassword.setError("This password is incorrect");
            fokus = mViewPassword;
            cancel = true;
        }
        /* Jika cancel true, variable fokus mendapatkan fokus */
        if (cancel) fokus.requestFocus();
       else masuk();
    }
   /** Menuju ke MainActivity dan Set User dan Status sedang Login, di
Preferences */
    private void masuk(){
        Preferences.setLoggedInUser(getBaseContext(), Preferences.getRegistered
User(getBaseContext()));
       Preferences.setLoggedInStatus(getBaseContext(),true);
        startActivity(new
Intent(getBaseContext(), MainActivity.class)); finish();
    }
    /** True jika parameter password sama dengan data password yang terdaftar
dari Preferences */
   private boolean cekPassword(String password){
        return
password.equals(Preferences.getRegisteredPass(getBaseContext()));
    /** True jika parameter user sama dengan data user yang terdaftar dari
Preferences */
    private boolean cekUser(String user){
        return user.equals(Preferences.getRegisteredUser(getBaseContext()));
    }
}
Preference.java
package fryctze.tutorial.preference;
```

```
import android.content.Context;
import android.content.SharedPreferences;
import android.preference.PreferenceManager;
public class Preferences {
   /** Pendeklarasian key-data berupa String, untuk sebagai wadah penyimpanan
data.
     * Jadi setiap data mempunyai key yang berbeda satu sama lain */
    static final String KEY_USER_TEREGISTER ="user", KEY_PASS_TEREGISTER
="pass";
    static final String KEY USERNAME SEDANG LOGIN = "Username logged in";
    static final String KEY_STATUS_SEDANG_LOGIN = "Status_logged_in";
   /** Pendlakarasian Shared Preferences yang berdasarkan paramater context
   private static SharedPreferences getSharedPreference(Context context){
        return PreferenceManager.getDefaultSharedPreferences(context);
    }
    /** Deklarasi Edit Preferences dan mengubah data
    * yang memiliki key isi KEY_USER_TEREGISTER dengan parameter username */
   public static void setRegisteredUser(Context context, String username){
       SharedPreferences.Editor editor = getSharedPreference(context).edit();
       editor.putString(KEY_USER_TEREGISTER, username);
       editor.apply();
    /** Mengembalikan nilai dari key KEY_USER_TEREGISTER berupa String */
   public static String getRegisteredUser(Context context){
       return getSharedPreference(context).getString(KEY_USER_TEREGISTER,"");
    }
    /** Deklarasi Edit Preferences dan mengubah data
    * yang memiliki key KEY_PASS_TEREGISTER dengan parameter password */
   public static void setRegisteredPass(Context context, String password){
       SharedPreferences.Editor editor = getSharedPreference(context).edit();
       editor.putString(KEY_PASS_TEREGISTER, password);
       editor.apply();
    /** Mengembalikan nilai dari key KEY_PASS_TEREGISTER berupa String */
   public static String getRegisteredPass(Context context){
        return getSharedPreference(context).getString(KEY_PASS_TEREGISTER,"");
    }
    /** Deklarasi Edit Preferences dan mengubah data
    * yang memiliki key KEY_USERNAME_SEDANG_LOGIN dengan parameter username
   public static void setLoggedInUser(Context context, String username){
```

```
SharedPreferences.Editor editor = getSharedPreference(context).edit();
        editor.putString(KEY USERNAME SEDANG LOGIN, username);
        editor.apply();
   /** Mengembalikan nilai dari key KEY USERNAME SEDANG LOGIN berupa String
   public static String getLoggedInUser(Context context){
        return
getSharedPreference(context).getString(KEY USERNAME SEDANG LOGIN,"");
    }
    /** Deklarasi Edit Preferences dan mengubah data
     * yang memiliki key KEY STATUS SEDANG LOGIN dengan parameter status */
    public static void setLoggedInStatus(Context context, boolean status){
        SharedPreferences.Editor editor = getSharedPreference(context).edit();
        editor.putBoolean(KEY STATUS SEDANG LOGIN, status);
        editor.apply();
    }
    /** Mengembalikan nilai dari key KEY STATUS SEDANG LOGIN berupa boolean */
   public static boolean getLoggedInStatus(Context context){
        return
getSharedPreference(context).getBoolean(KEY_STATUS_SEDANG_LOGIN, false);
    /** Deklarasi Edit Preferences dan menghapus data, sehingga menjadikannya
bernilai default
     * khusus data yang memiliki key KEY_USERNAME_SEDANG_LOGIN dan
KEY_STATUS_SEDANG_LOGIN */
    public static void clearLoggedInUser (Context context){
        SharedPreferences.Editor editor = getSharedPreference(context).edit();
        editor.remove(KEY_USERNAME_SEDANG_LOGIN);
        editor.remove(KEY_STATUS_SEDANG_LOGIN);
        editor.apply();
    }
}
RegisterActivity.java
package fryctze.tutorial.preference;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.text.TextUtils;
import android.view.KeyEvent;
import android.view.View;
import android.view.inputmethod.EditorInfo;
import android.widget.EditText;
import android.widget.TextView;
```

```
public class RegisterActivity extends AppCompatActivity {
    private EditText mViewUser, mViewPassword, mViewRepassword;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_register);
        /* Menginisialisasi variable dengan Form User, Form Password, dan Form
Repassword
        dari Layout RegisterActivity */
        mViewUser =findViewById(R.id.et emailSignup);
        mViewPassword =findViewById(R.id.et_passwordSignup);
        mViewRepassword =findViewById(R.id.et passwordSignup2);
        /* Menjalankan Method razia() jika merasakan tombol SignUp di keyboard
disentuh */
        mViewRepassword.setOnEditorActionListener(new
TextView.OnEditorActionListener() {
            @Override
            public boolean onEditorAction(TextView v, int actionId, KeyEvent
event) {
                if (actionId == EditorInfo.IME_ACTION_DONE | actionId ==
EditorInfo.IME NULL) {
                    razia();
                    return true;
                return false;
            }
        });
        /* Menjalankan Method razia() jika merasakan tombol SignUp disentuh */
        findViewById(R.id.button_signupSignup).setOnClickListener(new
View.OnClickListener() {
            @Override
            public void onClick(View v) {
                razia();
            }
        });
    }
    /** Men-check inputan User dan Password dan Memberikan akses ke
MainActivity */
    private void razia(){
        /* Mereset semua Error dan fokus menjadi default */
        mViewUser.setError(null);
        mViewPassword.setError(null);
        mViewRepassword.setError(null);
```

```
View fokus = null;
        boolean cancel = false;
        /* Mengambil text dari Form User, Password, Repassword dengan variable
baru bertipe String*/
        String repassword = mViewRepassword.getText().toString();
        String user = mViewUser.getText().toString();
        String password = mViewPassword.getText().toString();
        /* Jika form user kosong atau MEMENUHI kriteria di Method cekUser()
maka, Set error di Form-
         * User dengan menset variable fokus dan error di Viewnya juga cancel
menjadi true*/
        if (TextUtils.isEmpty(user)){
            mViewUser.setError("This field is required");
           fokus = mViewUser;
            cancel = true;
        }else if(cekUser(user)){
            mViewUser.setError("This Username is already exist");
            fokus = mViewUser;
           cancel = true;
        }
        /* Jika form password kosong dan MEMENUHI kriteria di Method
cekPassword maka,
         * Reaksinya sama dengan percabangan User di atas. Bedanya untuk
Password dan Repassword*/
        if (TextUtils.isEmpty(password)){
           mViewPassword.setError("This field is required");
            fokus = mViewPassword;
            cancel = true;
        }else if (!cekPassword(password,repassword)){
            mViewRepassword.setError("This password is incorrect");
            fokus = mViewRepassword;
            cancel = true;
        }
        /** Jika cancel true, variable fokus mendapatkan fokus. Jika false,
maka
         * Kembali ke LoginActivity dan Set User dan Password untuk data yang
terdaftar */
        if (cancel){
            fokus.requestFocus();
        }else{
            Preferences.setRegisteredUser(getBaseContext(),user);
            Preferences.setRegisteredPass(getBaseContext(),password);
           finish();
        }
```

```
/** True jika parameter password sama dengan parameter repassword */
private boolean cekPassword(String password, String repassword){
    return password.equals(repassword);
}

/** True jika parameter user sama dengan data user yang terdaftar dari
Preferences */
private boolean cekUser(String user){
    return user.equals(Preferences.getRegisteredUser(getBaseContext()));
}
```