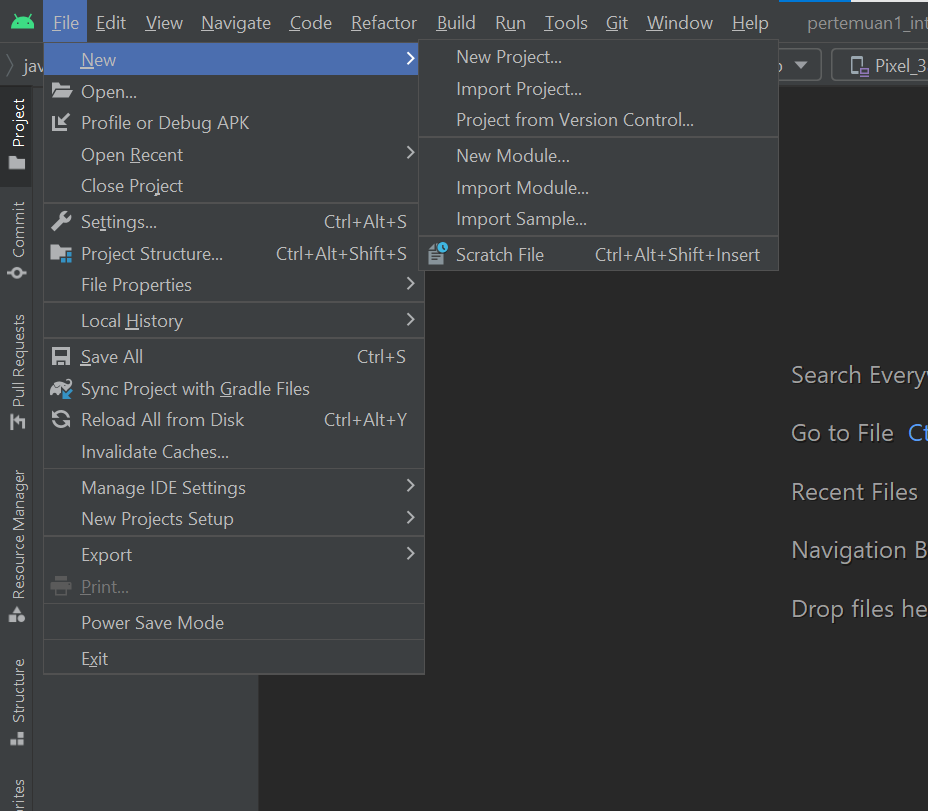
**Tugas Pertemuan Ke – 10**

**Bab 10 : Shared Preferences**

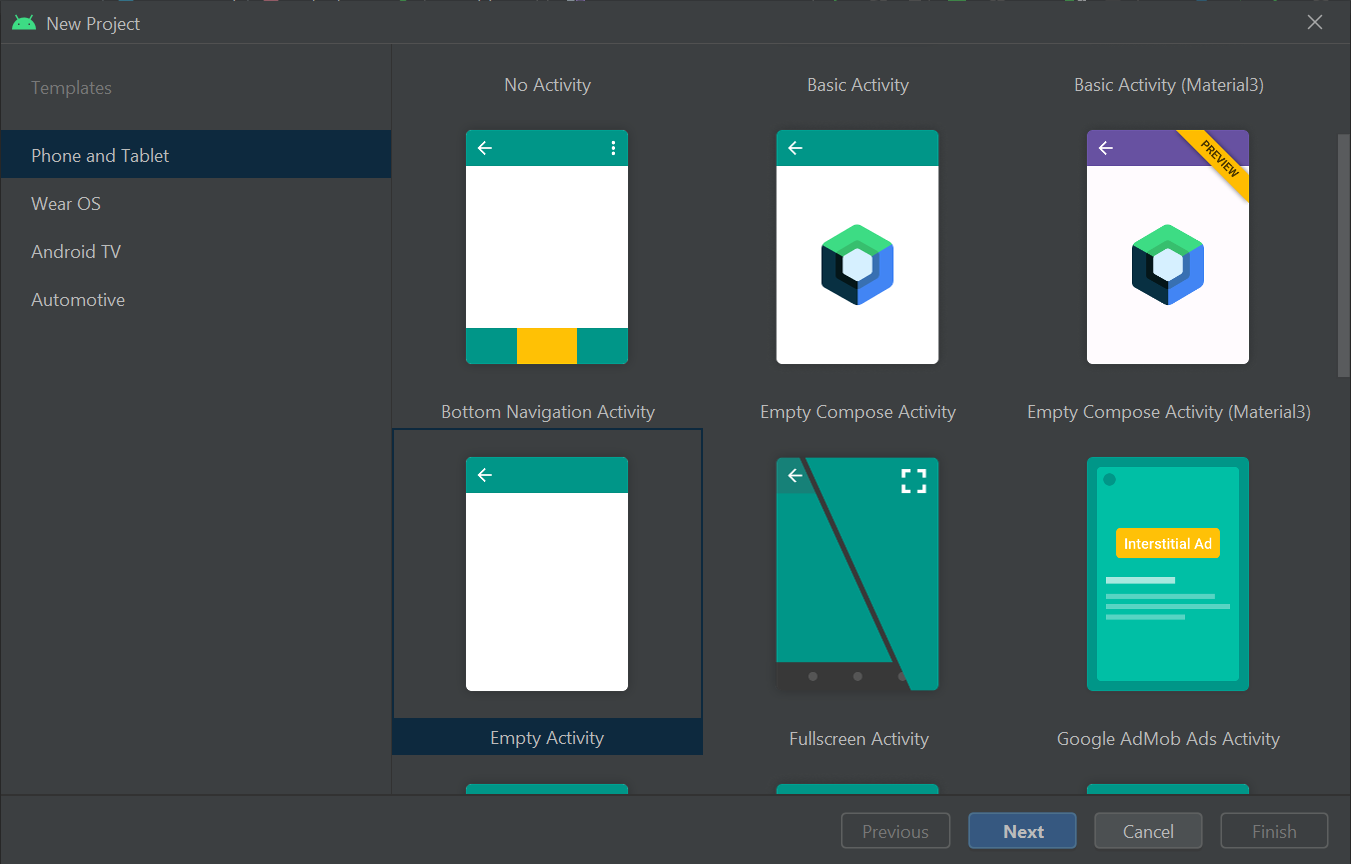
|  |  |
| --- | --- |
| **Nama** | Alfina |
| **Nim** | 2018041 |
| **Kelas** | B |
| **Pemberi Tugas** | Yonanda Haryono (2118105) |

1. **Melanjutkan projek sesuai tema dengan mengimplementasikan Shared Preference. Tambahkan menu Log Out pada Action bar atau Navigation bar. Pastikan halaman login menjadi halaman utama ketika aplikasi pertama kali dibuka. Pastikan tampilan UI yang dibuat sebagus dan sekreatif mungkin.**
2. **Langkah – langkah pengerjaan**
3. Membuat *project* baru pada Android Studio dengan memilih *New Projec*t seperti pada gambar dibawah



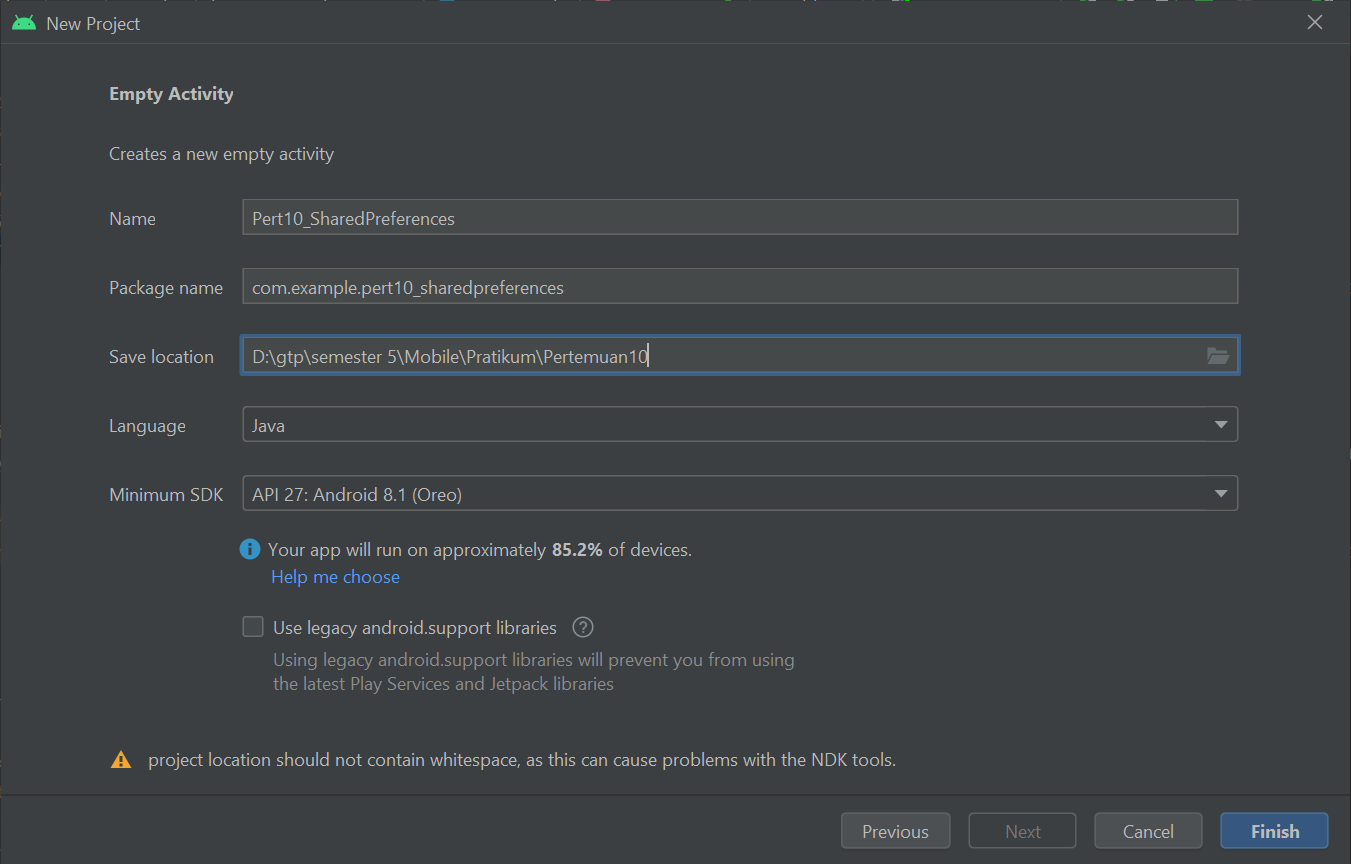
#### Halaman Awal Android Studio

1. Praktikan memilih “*Empy Activity*” pada “*Phone and Tablet*” seperti pada gambar dibawah



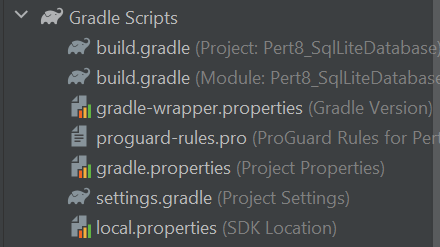
#### *Empty Activity* pada *Phone and Tablet*

1. Mengisi identitas project seperti pada gambar. Disarankan memakai minimum SDK 27 ( Android 8.1 Oreo ). Jika sudah klik *finish*



#### Mengisi Identitas *Project*

1. Kemudian double klik pada build.gradle



#### Build Gradle

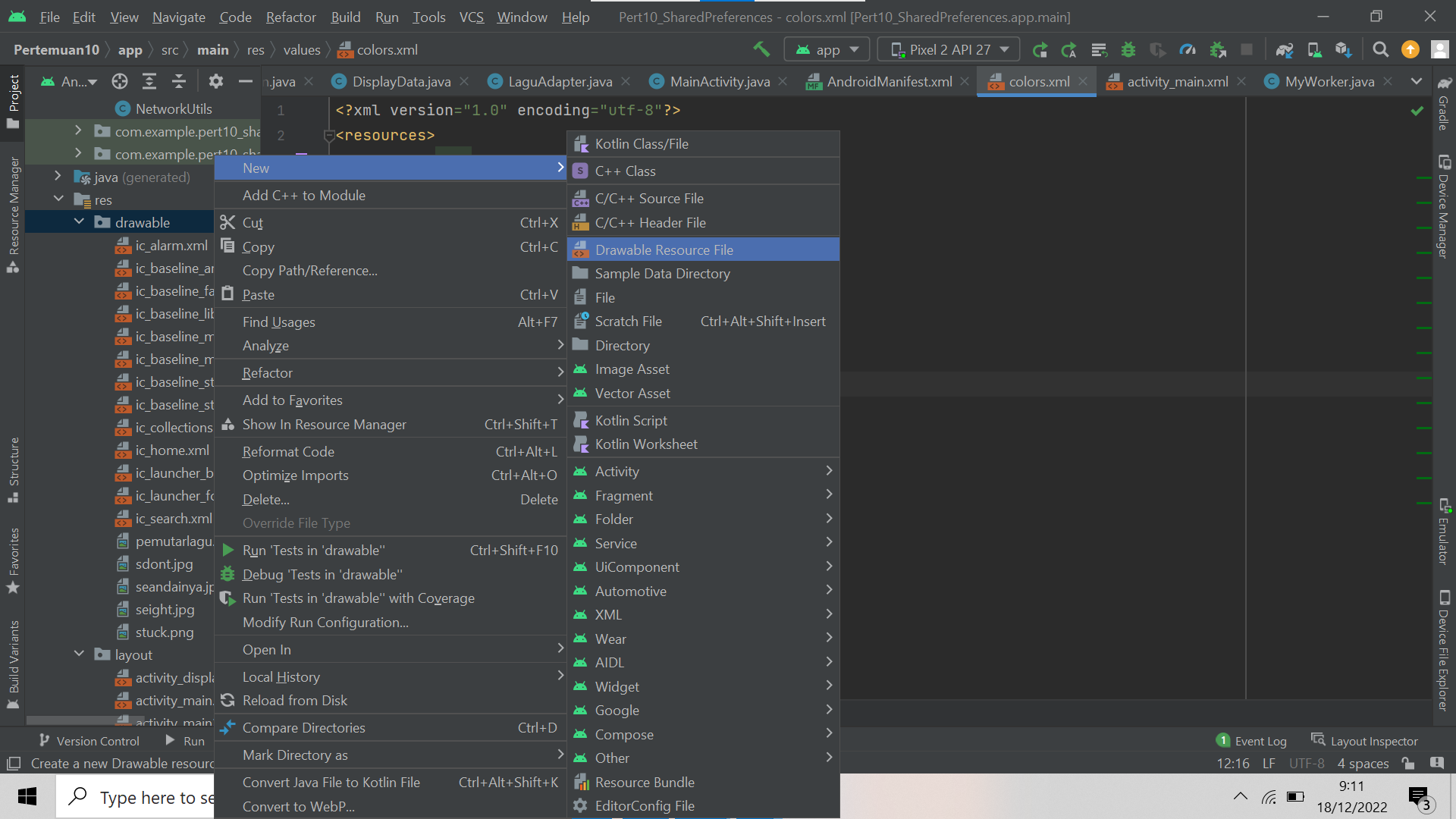
1. Masukkan beberapa library ke file graddle lalu sync now

|  |
| --- |
| //activation binding view  buildFeatures{  viewBinding true  } |

1. Pergi ke colors.xml dengan cara pilih folder Res > Values > Colors.xml, kemudian tambahkan source code berikut.

|  |
| --- |
| <?xml version="1.0" encoding="utf-8"?>  <resources>  <color name="purple\_200">#FFBB86FC</color>  <color name="purple\_500">#FF6200EE</color>  <color name="purple\_700">#FF3700B3</color>  <color name="teal\_200">#FF03DAC5</color>  <color name="teal\_700">#FF018786</color>  <color name="black">#FF000000</color>  <color name="white">#FFFFFFFF</color>  <color name="grey\_dark">#131313</color>  <color name="grey\_card">#201F1F</color>  <color name="yellow">#FDFD1F</color>  <color name="white\_blur">#BDBDBD</color>  <color name="colorPrimary">#00796b</color>  <color name="colorPrimaryDark">#00695C</color>  <color name="colorAccent">#FF4081</color>  </resources> |

1. Kemudian membuat Drawable Resource File baru, dengan cara pilih folder > res > drawable > lalu klik kanan pilih new > pillih Drawable Resource File.



#### Membuat Drawable Resource File

1. Buat 4 Drawable Resource File dengan identitas sesuai pada gambar dibawah ini.



#### Identitas Drawabel Resource File

1. Tambahkan Source Code btn\_custom.xml seperti dibawah ini.

|  |
| --- |
| <?xml version="1.0" encoding="utf-8"?>  <shape xmlns:android="http://schemas.android.com/apk/res/android"  android:padding="10dp"  android:shape="rectangle" >  <solid android:color="#26a69a" />  <corners  android:bottomLeftRadius="5dp"  android:bottomRightRadius="5dp"  android:topLeftRadius="5dp"  android:topRightRadius="5dp" />  </shape> |

1. Tambahkan Source Code et\_custom.xml seperti dibawah ini.

|  |
| --- |
| <?xml version="1.0" encoding="utf-8"?>  <shape xmlns:android="http://schemas.android.com/apk/res/android"  android:padding="10dp"  android:shape="rectangle" >  <solid android:color="#f5f5f5" />  <stroke  android:width="1dp"  android:color="#e0e0e0" />  <corners  android:bottomLeftRadius="5dp"  android:bottomRightRadius="5dp"  android:topLeftRadius="5dp"  android:topRightRadius="5dp" />  </shape> |

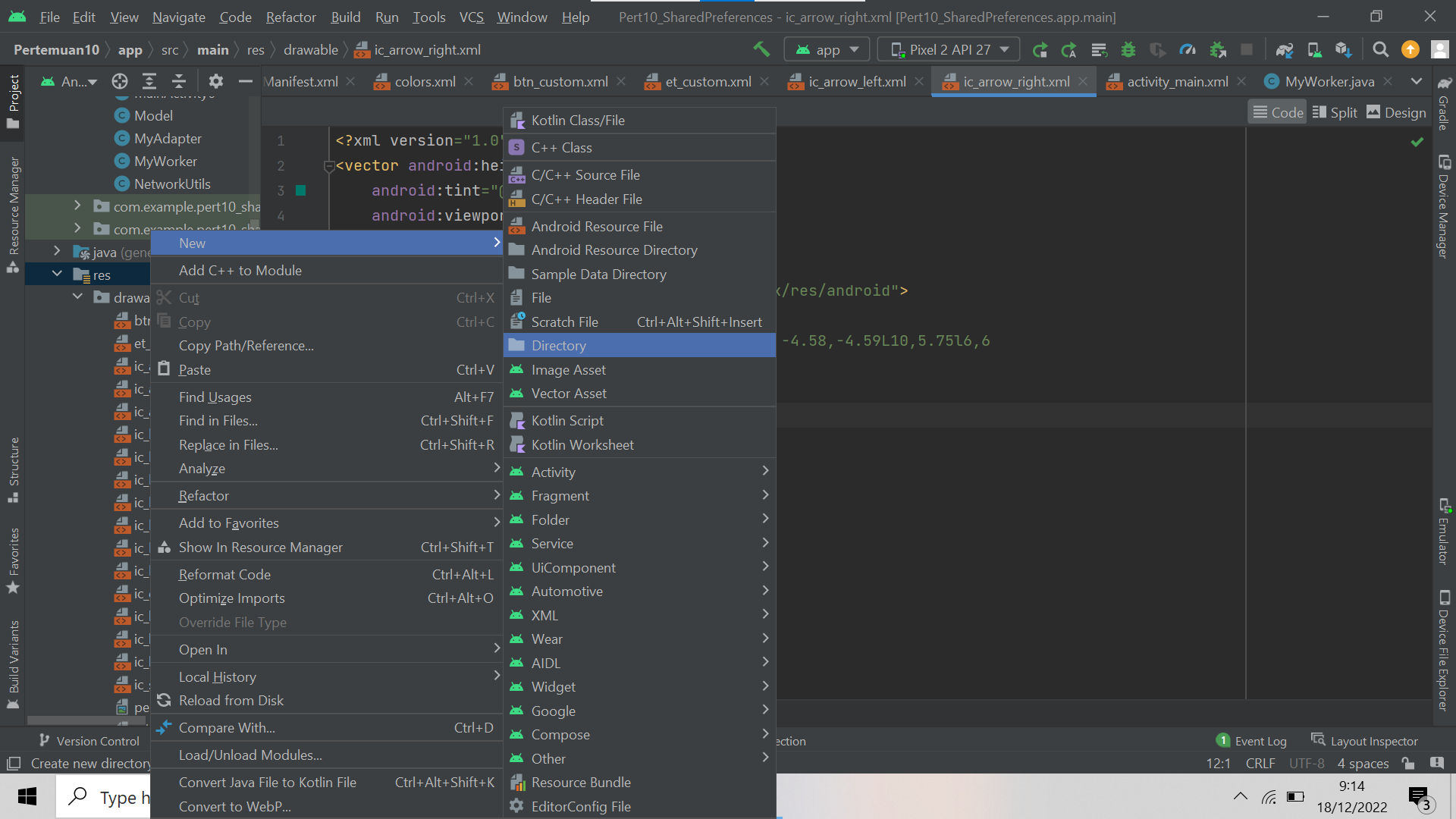
1. Tambahkan Source Code ic\_arrow\_left.xml seperti dibawah ini.

|  |
| --- |
| <vector android:height="24dp"  android:tint="@color/colorPrimary"  android:viewportHeight="24.0"  android:viewportWidth="24.0"  android:width="24dp"  xmlns:android="http://schemas.android.com/apk/res/android">  <path android:fillColor="#FF000000"  android:pathData="M15.41,16.09l-4.58,-4.59 4.58,-4.59L14,5.5l-6,66,6z"/>  </vector> |

1. Tambahkan Source Code ic\_arrow\_right.xml seperti dibawah ini.

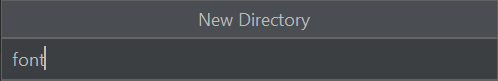
|  |
| --- |
| <?xml version="1.0" encoding="utf-8"?>  <vector android:height="24dp"  android:tint="@color/colorPrimary"  android:viewportHeight="24.0"  android:viewportWidth="24.0"  android:width="24dp"  xmlns:android="http://schemas.android.com/apk/res/android">  <path android:fillColor="#FF000000"  android:pathData="M8.59,16.34l4.58,-4.59 -4.58,-4.59L10,5.75l6,6-6,6z"/>  </vector> |

1. Kemudian membuat Directory baru dengan cara klik kanan pada folder res > pilih new > pilih Directory.



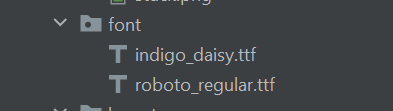
#### Membuat Directory Baru

1. Beri identitas Directory seperti gambar dibawah ini.



#### Identitas Deirectory Baru

1. Kemudian download (Font1) dan (Font2) lalu copy paste pada Directory font yang sudah dibuat pada langkah 11.

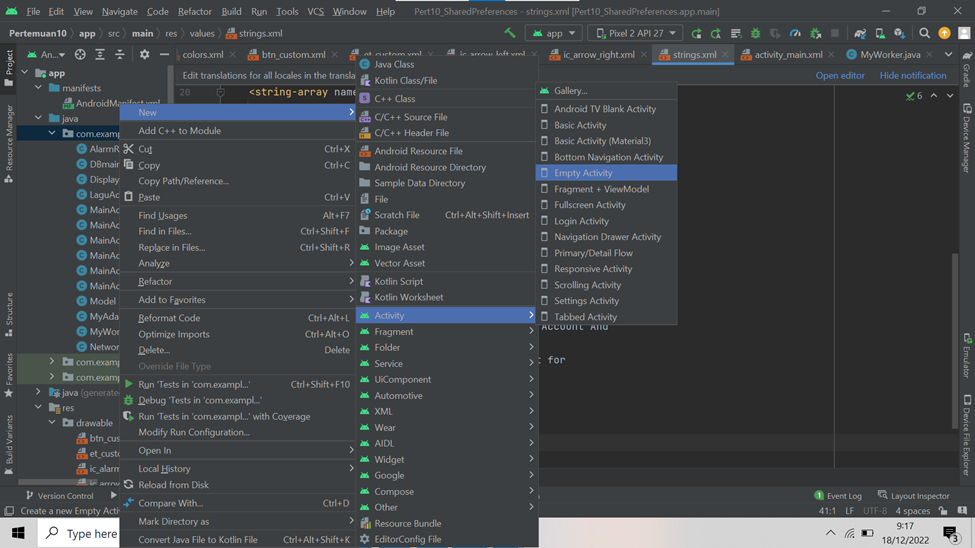


#### Font yang di Tambahkan

1. Pergi ke Strings.xml dengan cara pilih folder Res > Values > strings.xml, kemudian tambahkan source code berikut.

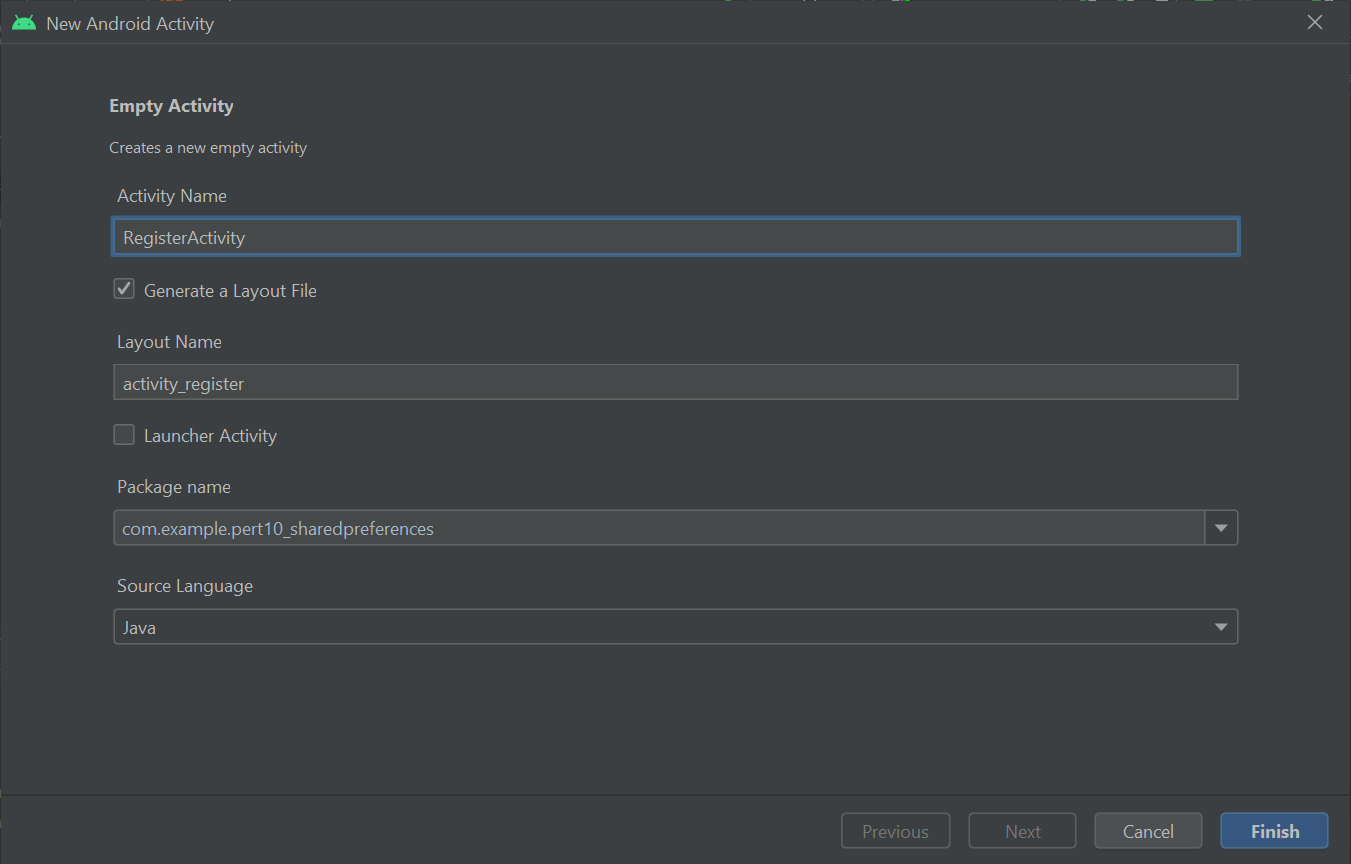
|  |
| --- |
| <resources>  <string name="app\_name">Pemutar Lagu</string>  <string name="Open">Open</string>  <string name="Close">Close</string>  <string name="album">My First Love</string>  <string name="genre">Childrens Music, Pop, J-Pop, Indonesian Pop</string>  <string name="tahun\_rilis">2009</string>  <string name="artis">Vierratale</string>  <string-array name="lagu">  <item>Dont Look Back In Anger</item>  <item>Eight</item>  <item>Stuck</item>  </string-array>  <string-array name="star">  <item>4.8</item>  <item>4.8</item>  <item>4.8</item>  </string-array>  <string-array name="artis">  <item>Oasis</item>  <item>IU</item>  <item>Justin ft Ariana</item>  </string-array>  <string name="hello\_blank\_fragment">Hello blank  fragment</string>  <string name="swipe\_left\_for\_register">Swipe Left for  Register</string>  <string name="login">Login</string>  <string name="password">Password</string>  <string name="e\_mail">Email</string>  <string name="tagLogin">Let\'s join us and \nLogin Your  Account</string>  <string name="tagRegister">Let\'s Register Your Account And  \nGo Back To Login</string>  <string name="swipe\_right\_for\_login">Swipe Right for  Login</string>  <string name="register">Register</string>  <string name="your\_name">Full Name</string>  <string name="username">Username</string>  </resources> |

1. Kemudian membuat Empty Activity dengan cara pilih folder java > com.example seperti pada gambar dibawah ini.



#### Membuat Empty Activity Baru

1. Buat 2 Empty Activity dengan identitas RegisterActivity.



#### Identitas Empty Activity

1. Kemudian double klik pada file activity\_register.xml yang telah dibuat pada langkah 15, lalu tambahkan source code berikut.

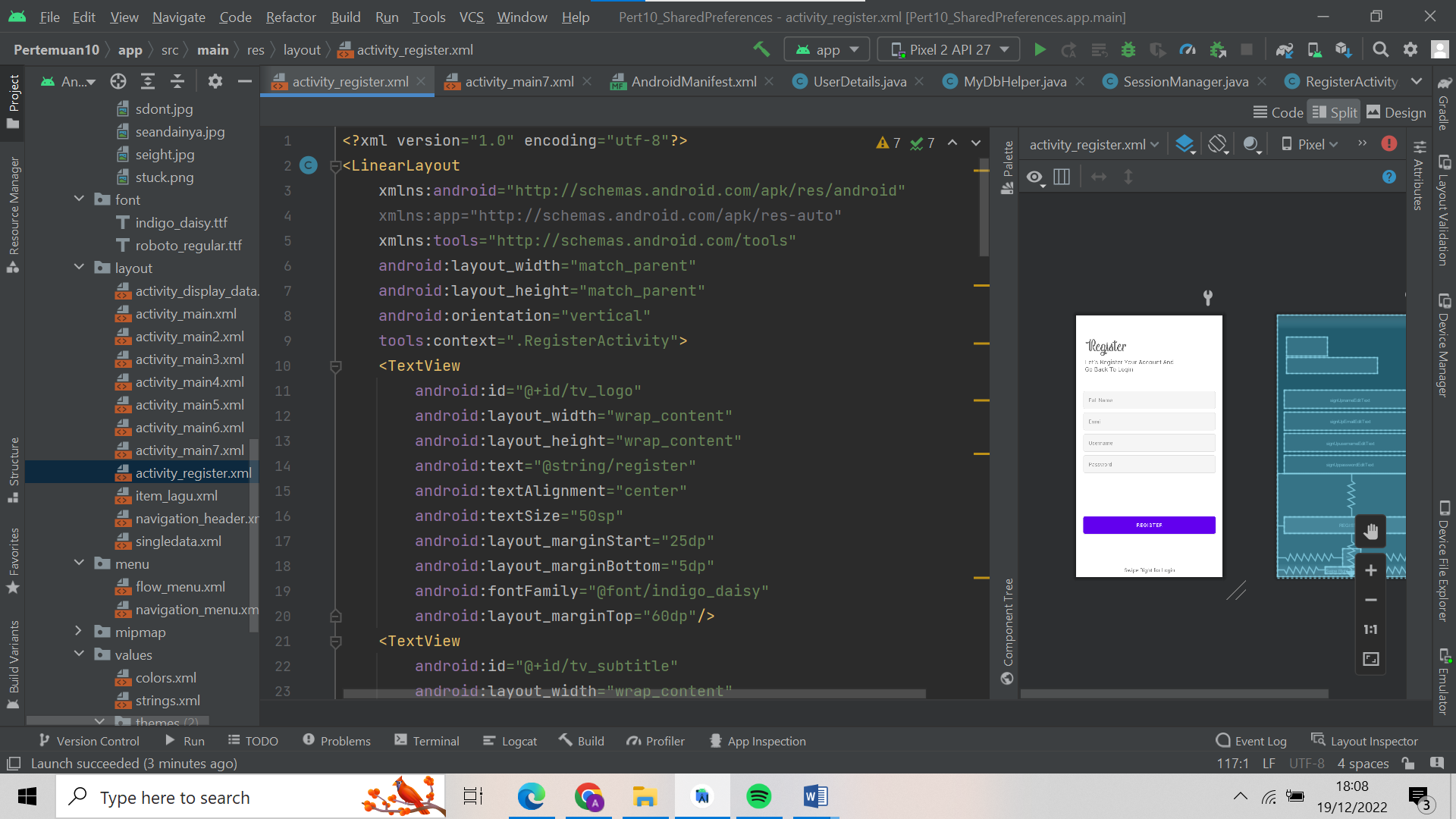
### Tabel Komponen acitivy\_register.xml

|  |  |  |  |
| --- | --- | --- | --- |
| No | Objek | Property | Value |
| 1 | TextView | Id  text | tv\_logo  register |
| 2 | TextView | Id  text | tv\_subtitle  @string/tagRegister |
| 3 | EditText | Id  text | signUpnameEditText  @string/your\_name |
| 4 | EditText | Id  text | signiUpEmailEditText  @string/e\_mail |
| 5 | EditText | Id  text | signUpusernameEditText  @string/username |
| 6 | EditText | Id  text | signUppasswordEditText  @string/password |
| 7 | Button | Id  text | SignUpbuttonid  @string/register |
| 8 | Imagebutton | Id  src | SigninHerebuttonid  @drawable/ic\_arrow\_left |
| 9 | TextView | Id  text | swipeLeft  @string/swipe\_right\_for\_login |

Source code :

|  |
| --- |
| <?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"  tools:context=".RegisterActivity">  <TextView  android:id="@+id/tv\_logo"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="@string/register"  android:textAlignment="center"  android:textSize="50sp"  android:layout\_marginStart="25dp"  android:layout\_marginBottom="5dp"  android:fontFamily="@font/indigo\_daisy"  android:layout\_marginTop="60dp"/>  <TextView  android:id="@+id/tv\_subtitle"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="@string/tagRegister"  android:textSize="17sp"  android:fontFamily="@font/roboto\_regular"  android:layout\_marginStart="25dp"  android:layout\_marginBottom="50dp"/>  <EditText  android:id="@+id/signUpnameEditText"  android:layout\_width="match\_parent"  android:layout\_height="50dp"  android:hint="@string/your\_name"  android:layout\_marginLeft="20dp"  android:layout\_marginRight="20dp"  android:layout\_marginBottom="10dp"  android:padding="15dp"  android:inputType="textPersonName"  android:fontFamily="@font/roboto\_regular"  android:background="@drawable/et\_custom"  android:textSize="15sp" />  <EditText  android:id="@+id/signiUpEmailEditText"  android:layout\_width="match\_parent"  android:layout\_height="50dp"  android:hint="@string/e\_mail"  android:layout\_marginLeft="20dp"  android:layout\_marginRight="20dp"  android:layout\_marginBottom="10dp"  android:padding="15dp"  android:fontFamily="@font/roboto\_regular"  android:inputType="textEmailAddress"  android:background="@drawable/et\_custom"  android:textSize="15sp" />  <EditText  android:id="@+id/signUpusernameEditText"  android:layout\_width="match\_parent"  android:layout\_height="50dp"  android:hint="@string/username"  android:layout\_marginLeft="20dp"  android:layout\_marginRight="20dp"  android:layout\_marginBottom="10dp"  android:padding="15dp"  android:fontFamily="@font/roboto\_regular"  android:background="@drawable/et\_custom"  android:textSize="15sp" />  <EditText  android:id="@+id/signUppasswordEditText"  android:layout\_width="match\_parent"  android:layout\_height="50dp"  android:hint="@string/password"  android:layout\_marginLeft="20dp"  android:layout\_marginRight="20dp"  android:padding="15dp"  android:fontFamily="@font/roboto\_regular"  android:inputType="textPassword"  android:background="@drawable/et\_custom"  android:textSize="15sp" />  <RelativeLayout  android:layout\_width="match\_parent"  android:layout\_height="0dp"  android:layout\_weight="1">  <Button  android:id="@+id/SignUpbuttonid"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:layout\_centerInParent="true"  android:layout\_marginLeft="20dp"  android:layout\_marginRight="20dp"  android:layout\_marginBottom="50dp"  android:background="@drawable/btn\_custom"  android:fontFamily="@font/roboto\_regular"  android:text="@string/register"  android:textColor="@android:color/white" />  <ImageButton  android:id="@+id/SigninHerebuttonid"  android:layout\_width="50dp"  android:layout\_height="50dp"  android:src="@drawable/ic\_arrow\_left"  android:background="?android:attr/selectableItemBackground"  android:layout\_above="@id/swipeLeft"  android:layout\_centerHorizontal="true"/>  <TextView  android:id="@+id/swipeLeft"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="@string/swipe\_right\_for\_login"  android:textSize="15sp"  android:fontFamily="@font/roboto\_regular"  android:layout\_centerHorizontal="true"  android:layout\_alignParentBottom="true"  android:layout\_marginBottom="10dp"/>  </RelativeLayout>  </LinearLayout> |

Hasil Tampilan :



#### Hasil Tampilan activity\_register.xml

1. Kemudian double klik pada file activity\_main7.xml, lalu tambahkan source code berikut.

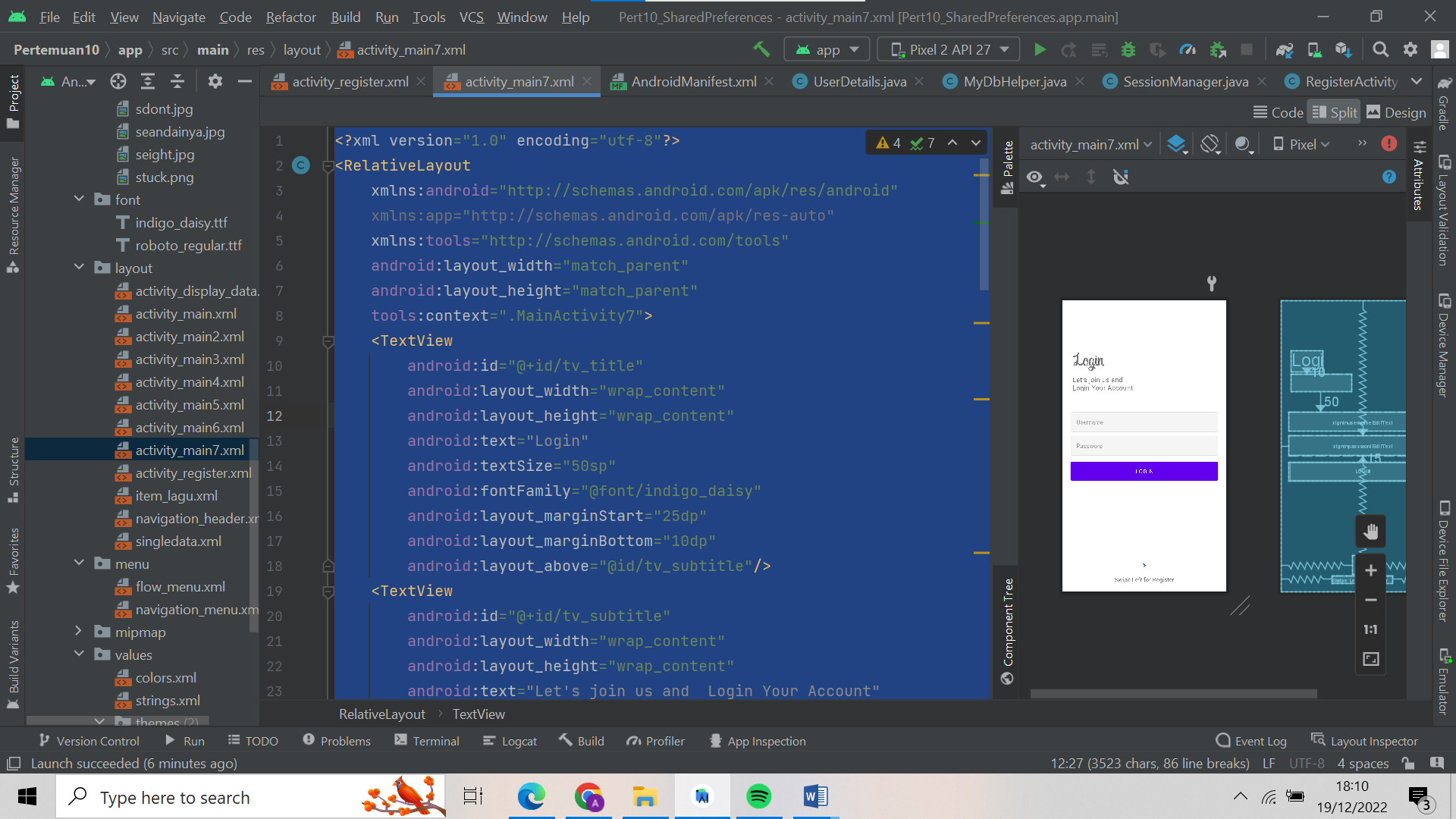
### Tabel Komponen activity\_main7.xml

|  |  |  |  |
| --- | --- | --- | --- |
| No | Objek | Property | Value |
| 1 | TextView | Id  text | tv\_title  @string/login |
| 2 | TextView | Id  text | tv\_subtitle  @string/tagLogin |
| 3 | EditText | Id  hint | signinusernameEditText  @string/username |
| 4 | EditText | Id  hint | signinpasswordEditText  @string/password |
| 5 | Button | Id  text | Signinbuttonid  @string/login |
| 6 | ImageButton | Id  src | SignUpHerebuttonid  @drawable/ic\_arrow\_right |
| 7 | TextView | Id  text | swipeRight  @string/swipe\_left\_for\_register |

Source code:

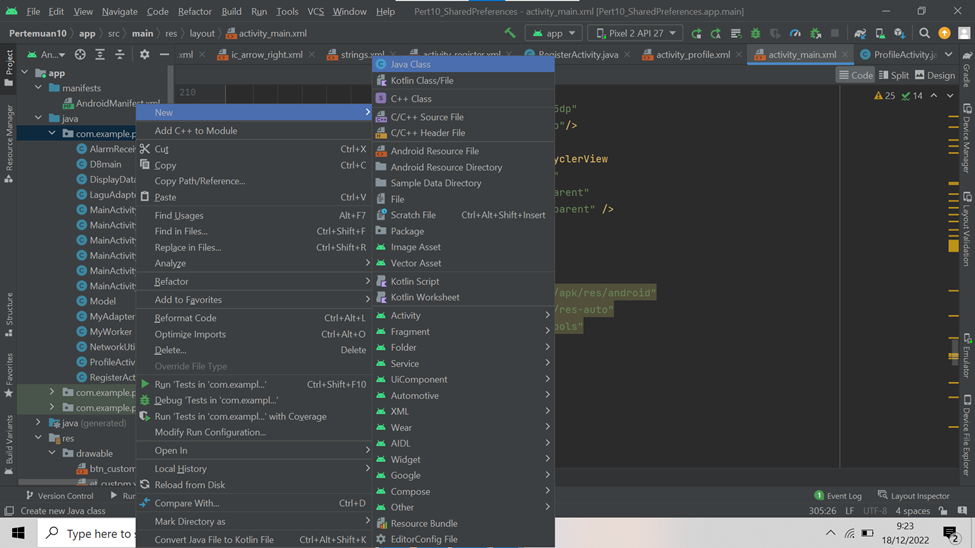
|  |
| --- |
| <?xml version="1.0" encoding="utf-8"?>  <RelativeLayout  xmlns:android="http://schemas.android.com/apk/res/android"  xmlns:app="http://schemas.android.com/apk/res-auto"  xmlns:tools="http://schemas.android.com/tools"  android:layout\_width="match\_parent"  android:layout\_height="match\_parent"  tools:context=".MainActivity7">  <TextView  android:id="@+id/tv\_title"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="@string/login"  android:textSize="50sp"  android:fontFamily="@font/indigo\_daisy"  android:layout\_marginStart="25dp"  android:layout\_marginBottom="10dp"  android:layout\_above="@id/tv\_subtitle"/>  <TextView  android:id="@+id/tv\_subtitle"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="@string/tagLogin"  android:textSize="17sp"  android:fontFamily="@font/roboto\_regular"  android:layout\_marginStart="25dp"  android:layout\_marginBottom="50dp"  android:layout\_above="@id/signinusernameEditText"/>  <EditText  android:id="@+id/signinusernameEditText"  android:layout\_width="match\_parent"  android:layout\_height="50dp"  android:hint="@string/username"  android:layout\_marginLeft="20dp"  android:layout\_marginRight="20dp"  android:padding="15dp"  android:inputType="textEmailAddress"  android:fontFamily="@font/roboto\_regular"  android:layout\_above="@id/signinpasswordEditText"  android:background="@drawable/et\_custom"  android:textSize="15sp" />  <EditText  android:id="@+id/signinpasswordEditText"  android:layout\_width="match\_parent"  android:layout\_height="50dp"  android:hint="@string/password"  android:layout\_marginLeft="20dp"  android:layout\_marginRight="20dp"  android:layout\_marginTop="10dp"  android:padding="15dp"  android:fontFamily="@font/roboto\_regular"  android:inputType="textPassword"  android:layout\_centerInParent="true"  android:background="@drawable/et\_custom"  android:textSize="15sp" />  <Button  android:id="@+id/Signinbuttonid"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:layout\_below="@id/signinpasswordEditText"  android:background="@drawable/btn\_custom"  android:layout\_marginLeft="20dp"  android:layout\_marginRight="20dp"  android:layout\_marginTop="15dp"  android:fontFamily="@font/roboto\_regular"  android:textColor="@android:color/white"  android:text="@string/login"/>  <ImageButton  android:id="@+id/SignUpHerebuttonid"  android:layout\_width="50dp"  android:layout\_height="50dp"  android:src="@drawable/ic\_arrow\_right"  android:background="?android:attr/selectableItemBackground"  android:layout\_above="@id/swipeRight"  android:layout\_centerHorizontal="true"/>  <TextView  android:id="@+id/swipeRight"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="@string/swipe\_left\_for\_register"  android:textSize="15sp"  android:fontFamily="@font/roboto\_regular"  android:layout\_centerHorizontal="true"  android:layout\_alignParentBottom="true"  android:layout\_marginBottom="20dp"/>  </RelativeLayout> |

Hasil Tampilan :



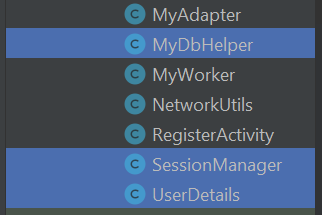
#### Hasil Tampilan activity\_main7.xml

1. Kemudian membuat java class baru dengan cara klik kanan pada com.example > pilih New > pilih Java Class.



#### Membuat Java Class Baru

1. Buat 3 Java Class dengan identitas seperti pada gambar dibawah ini.



#### Identitas Java Class Baru

1. Kemudian double klik pada UserDetails.java yang sudah dibuat pada langkah 20, lalu tambahkan source code seperti dibawah ini.

|  |
| --- |
| package com.example.pert10\_sharedpreferences;  public class UserDetails {  private String name, email, username, password;  public void setName(String name) {  this.name = name;  }  public void setEmail(String email) {  this.email = email;  }  public void setUsername(String username) {  this.username = username;  }  public void setPassword(String password) {  this.password = password;  }  public String getName() {  return name;  }  public String getEmail() {  return email;  }  public String getUsername() {  return username;  }  public String getPassword() {  return password;  }  } |

Analisa :

*Source* *code* diatas bertipe file .java. Pada *Source* *code* tersebut terdapat *public* *class* yang didalamnya terdapat varibel dengan tipe data *string*. Terdapat juga fungsi *void* mengembalikan nilai itu sendiri.

1. Kemudian double klik pada MyDbHelper.java yang sudah dibuat pada langkah 20, lalu tambahkan source code seperti dibawah ini.

|  |
| --- |
| package com.example.pert10\_sharedpreferences;  import android.content.ContentValues;  import android.content.Context;  import android.database.Cursor;  import android.database.sqlite.SQLiteDatabase;  import android.database.sqlite.SQLiteOpenHelper;  import android.widget.Toast;  import androidx.annotation.Nullable;  public class MyDbHelper extends SQLiteOpenHelper {  private static final String DATABASE\_NAME = "LoginPage.db";  private static final String TABLE\_NAME = "user\_details";  private static final String ID = "id";  private static final String NAME = "Name";  private static final String EMAIL = "Email";  private static final String USERNAME = "Username";  private static final String PASSWORD = "Password";  private static final int VERSION\_NUMBER = 1;  private Context context;  private static final String CREATE\_TABLE = "CREATE TABLE "+TABLE\_NAME+" ( "+ID+" INTEGER PRIMARY KEY AUTOINCREMENT, "+NAME+" VARCHAR (255) NOT NULL, "+EMAIL+" TEXT NOT NULL, "+USERNAME+" TEXT NOT NULL, "+PASSWORD+" TEXT NOT NULL);";  private static final String DROP\_TABLE = "DROP TABLE IF EXISTS "+TABLE\_NAME;  public MyDbHelper(@Nullable Context context) {  super(context, DATABASE\_NAME, null, VERSION\_NUMBER);  this.context = context;  }  @Override  public void onCreate(SQLiteDatabase db) {  try {  db.execSQL(CREATE\_TABLE);  Toast.makeText(context, "onCreate is Called",Toast.LENGTH\_SHORT).show();  }catch (Exception e){  Toast.makeText(context, "Exception :"+e ,Toast.LENGTH\_SHORT).show();  }}  @Override  public void onUpgrade(SQLiteDatabase db, int oldVersion, int  newVersion) {  try {  Toast.makeText(context, "onUpgrade is Called",Toast.LENGTH\_SHORT).show();  db.execSQL(DROP\_TABLE);  onCreate(db);  }catch (Exception e){  Toast.makeText(context, "Exception :"+e  ,Toast.LENGTH\_SHORT).show();  }  }  public long insertData(UserDetails userDetails){  SQLiteDatabase sqLiteDatabase = this.getWritableDatabase();  ContentValues contentValues = new ContentValues();  contentValues.put(NAME, userDetails.getName());  contentValues.put(EMAIL, userDetails.getEmail());  contentValues.put(USERNAME, userDetails.getUsername());  contentValues.put(PASSWORD, userDetails.getPassword());  long rowid = sqLiteDatabase.insert(TABLE\_NAME, null, contentValues);  return rowid;  }  public Boolean findPassword(String uname, String pass){  SQLiteDatabase sqLiteDatabase = this.getWritableDatabase();  Cursor cursor = sqLiteDatabase.rawQuery("SELECT \* FROM "+TABLE\_NAME, null);  boolean result = false;  if (cursor.getCount() == 0){  Toast.makeText(context, "No Data Is Found", Toast.LENGTH\_SHORT).show();  }else {  while (cursor.moveToNext()){  String username = cursor.getString(3);  String password = cursor.getString(4);  if (username.equals(uname) && password.equals(pass)){  result = true;  break;  }  }  }  return result;  }  } |

Analisa :

*Source* *code* diatas adalah file yang bertipe .java. Terdapat fungsi *void* yang digunakan untuk membuat tabel. Terdapat fungsi *insert* data yang digunakan untuk memasukan data baru.

1. Kemudian double klik pada SessionManager.java yang sudah dibuat pada langkah 20, lalu tambahkan source code seperti dibawah ini.

|  |
| --- |
| package com.example.pert10\_sharedpreferences;  import android.content.Context;  import android.content.SharedPreferences;  import android.util.Log;  public class SessionManager {  private static String TAG = SessionManager.class.getSimpleName();  SharedPreferences pref;  SharedPreferences.Editor editor;  Context \_context;  int PRIVATE\_MODE = 0;  private static final String PREF\_NAME = "AndroidHiveLogin";  private static final String KEY\_IS\_LOGGED\_IN = "isLoggedIn";  public SessionManager(Context context){  this.\_context = context;  pref = \_context.getSharedPreferences(PREF\_NAME, PRIVATE\_MODE);  editor = pref.edit();  }  public void setLogin(boolean isLoggedIn){  editor.putBoolean(KEY\_IS\_LOGGED\_IN, isLoggedIn);  editor.commit();  Log.d(TAG, "User Login Session Modified");  }  public boolean isLoggedIn(){  return pref.getBoolean(KEY\_IS\_LOGGED\_IN, false);  }  } |

Analisa :

*Source* *code* diatas bertipe file .java. Terdapat *private* *static* yang fungsinya digunakan untuk menghasilkan nilai tetap dan bersifat *private*. Terdapat fungsi *void* dengan hak akses *public* yang digunakan untuk mengetahui pengguna *login*.

1. Kemudian double klik pada RegisterActivity.java yang sudah dibuat pada langkah 15, lalu tambahkan source code seperti dibawah ini.

|  |
| --- |
| package com.example.pert10\_sharedpreferences;  import androidx.appcompat.app.AppCompatActivity;  import android.content.Intent;  import android.os.Bundle;  import android.util.Patterns;  import android.view.View;  import android.widget.Toast;  import com.example.pert10\_sharedpreferences.databinding.ActivityRegisterBinding;  public class RegisterActivity extends AppCompatActivity implements View.OnClickListener {  private ActivityRegisterBinding binding;  UserDetails userDetails;  MyDbHelper myDbHelper;  @Override  protected void onCreate(Bundle savedInstanceState) {  super.onCreate(savedInstanceState);  //setup view binding  binding = ActivityRegisterBinding.inflate(getLayoutInflater());  setContentView(binding.getRoot());  myDbHelper = new MyDbHelper(this);  userDetails = new UserDetails();  binding.SignUpbuttonid.setOnClickListener(this);  binding.SigninHerebuttonid.setOnClickListener(this);  }  @Override  public void onClick(View v) {  if (v.getId() == R.id.SignUpbuttonid) {  String name = binding.signUpnameEditText.getText().toString();  String email = binding.signiUpEmailEditText.getText().toString();  String username = binding.signUpusernameEditText.getText().toString();  String password = binding.signUppasswordEditText.getText().toString();  //checking the validity of the Name  if (name.isEmpty()) {  binding.signUpnameEditText.setError("Enter an Name");  binding.signUpnameEditText.requestFocus();  return;  }  //checking the validity of the US  if (username.isEmpty()) {  binding.signUpusernameEditText.setError("Enter an Username");  binding.signUpusernameEditText.requestFocus();  return;  }  //checking the validity of the Email  if (email.isEmpty()) {  binding.signiUpEmailEditText.setError("Enter an Email Address");  binding.signiUpEmailEditText.requestFocus();  return;  }  if (!Patterns.EMAIL\_ADDRESS.matcher(email).matches())  {  binding.signiUpEmailEditText.setError("Enter a Valid Email Address");  binding.signiUpEmailEditText.requestFocus();  return;  }  //checking the validity of the password  if (password.isEmpty()) {  binding.signUppasswordEditText.setError("Enter a Password");  binding.signUppasswordEditText.requestFocus();  return;  }  if (password.length() < 6) {  binding.signUppasswordEditText.setError("Minimum Length of a Password Should be 6");  binding.signUppasswordEditText.requestFocus();  return;  }  userDetails.setName(name);  userDetails.setEmail(email);  userDetails.setUsername(username);  userDetails.setPassword(password);  long rowid = myDbHelper.insertData(userDetails);  if (rowid > 0) {  Toast.makeText(getApplicationContext(), "Row " + rowid + "is successfully inserted", Toast.LENGTH\_SHORT).show();  } else {  Toast.makeText(getApplicationContext(), "Row inserted inserted ", Toast.LENGTH\_SHORT).show();  }  Intent intent = new Intent(RegisterActivity.this, MainActivity.class);  startActivity(intent);  } else if (v.getId() == R.id.SigninHerebuttonid) {  Intent intent = new Intent(RegisterActivity.this, MainActivity.class);  startActivity(intent);  }  }  } |

Analisa :

*Source* *code* diatas bertipe file .java. Terdapat binding yang memiliki hak akses *private* untuk class itu saja. Kemudian terdapat *void* *onClick*() yang digunakan untuk menginputkan data pada *textfield*.

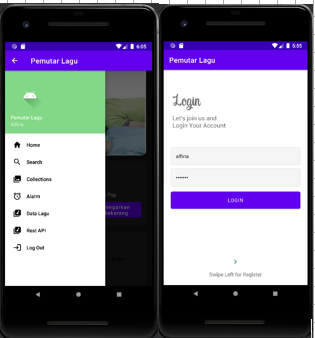
1. Kemudian double klik pada MainActivity7.java, lalu tambahkan source code seperti dibawah ini.

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| package com.example.pert10\_sharedpreferences;  import android.content.Intent;  import android.database.sqlite.SQLiteDatabase;  import android.os.Bundle;  import android.view.View;  import android.widget.Toast;  import androidx.appcompat.app.AppCompatActivity;  import com.example.pert10\_sharedpreferences.databinding.ActivityMain7Binding;  public class MainActivity7 extends AppCompatActivity implements View.OnClickListener {  MyDbHelper myDbHelper;  private ActivityMain7Binding binding;  private SessionManager session;  @Override  protected void onCreate(Bundle savedInstanceState) {  super.onCreate(savedInstanceState);  //setup view binding  binding = ActivityMain7Binding.inflate(getLayoutInflater());  setContentView(binding.getRoot());  session = new SessionManager(getApplicationContext());  if (session.isLoggedIn()) {  Intent intent = new Intent(MainActivity7.this, MainActivity7.class);  startActivity(intent);  finish();  }  session = new SessionManager(getApplicationContext());  myDbHelper = new MyDbHelper(this);  SQLiteDatabase sqLiteDatabase = myDbHelper.getWritableDatabase();  binding.Signinbuttonid.setOnClickListener(this);  binding.SignUpHerebuttonid.setOnClickListener(this);  }  @Override  public void onClick(View v) {  String username = binding.signinusernameEditText.getText().toString();  String password = binding.signinpasswordEditText.getText().toString();  if (v.getId() == R.id.Signinbuttonid) {  Boolean result = myDbHelper.findPassword(username, password);  if (result == true) {  Intent intent = new Intent(MainActivity7.this, MainActivity.class);  startActivity(intent);  session.setLogin(true);  finish();  } else {  Toast.makeText(this, "username and password didn`t match", Toast.LENGTH\_SHORT).show();  }  } else if (v.getId() == R.id.SignUpHerebuttonid) {  Intent intent = new Intent(MainActivity7.this, RegisterActivity.class);  startActivity(intent);  }  }  } |

Analisa :

*Source* *code* diatas bertipe file .java. Terdapat *import* *SharedPrefence* yang bisa disebut *plugin*, digunakan untuk menyimpan *simple* data atau data sederhana pada *device* *storage*, dan tidak disarankan untuk menyimpan data yang penting seperti *database*.

1. Hasil running program



#### Hasil Running Program

Analisa :

Program di atas yaitu program *shared preference* membuat *login* dan *logout* pada android studio. Saat program dijalankan *user* akan diminta memasukkan *username* dan *password* untuk masuk ke aplikasi. Jika belum punya *username* dan *password*, *user* bisa membuat terlebih dahulu dengan *register*. Pada *navigation* ditambahkan menu *logout* untuk keluar dari aplikasi

1. **Link repository github**