Practical 3

**filename:activity\_main.xml**

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:padding="16dp">

<EditText

android:id="@+id/email"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Email"

android:inputType="textEmailAddress" />

<EditText

android:id="@+id/password"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Password"

android:layout\_below="@id/email"

android:layout\_marginTop="10dp"

android:inputType="textPassword" />

<Button

android:id="@+id/loginButton"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Login"

android:layout\_below="@id/password"

android:layout\_marginTop="20dp"

android:enabled="false" />

</RelativeLayout>

**filename:MainActivity.java**

package com.example.emailvalidationlogin;

import android.os.Bundle;

import android.text.Editable;

import android.text.TextWatcher;

import android.util.Patterns;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

EditText email, password;

Button loginButton;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

email = findViewById(R.id.email);

password = findViewById(R.id.password);

loginButton = findViewById(R.id.loginButton);

TextWatcher textWatcher = new TextWatcher() {

@Override

public void beforeTextChanged(CharSequence s, int start, int count, int after) {

}

@Override

public void onTextChanged(CharSequence s, int start, int before, int count) {

validateInputs();

}

@Override

public void afterTextChanged(Editable s) {

}

};

email.addTextChangedListener(textWatcher);

password.addTextChangedListener(textWatcher);

loginButton.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Toast.makeText(MainActivity.this, "Login Successful", Toast.LENGTH\_SHORT).show();

}

});

}

private void validateInputs() {

String emailInput = email.getText().toString().trim();

String passwordInput = password.getText().toString().trim();

if (Patterns.EMAIL\_ADDRESS.matcher(emailInput).matches() && passwordInput.length() >= 4) {

loginButton.setEnabled(true);

} else {

loginButton.setEnabled(false);

}

}

}