Mainactivity.java

Package com.example.prog3;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.Toast;  
  
import java.util.regex.Matcher;  
import java.util.regex.Pattern;  
  
public class MainActivity extends AppCompatActivity implements View.OnClickListener {  
 EditText signup\_username,signup\_password;  
 Button btnsignup;  
 String regularExpression="^(?=.\*[A-Z])(?=.\*[a-z])(?=.\*\\d)(?=.\*[@!])[A-Za-z\\d@$!]{8,}$";  
  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 signup\_username=(EditText)findViewById(R.id.*txt\_username*);  
 signup\_password=(EditText)findViewById(R.id.*txt\_password*);  
 btnsignup=(Button) findViewById(R.id.*btn\_signup*);  
 btnsignup.setOnClickListener(this);  
  
 }  
  
 @Override  
 public void onClick(View view)

{  
 String username=signup\_username.getText().toString();  
 String password=signup\_password.getText().toString();  
 if(validatePassword(password)){  
 Toast.*makeText*(getBaseContext(),"valid password",

Toast.*LENGTH\_LONG*).show();  
 Bundle bundle=new Bundle();  
 bundle.putString("User",username);  
 bundle.putString("Pwd",password);  
 Intent it=new Intent(this,Login.class);  
 it.putExtra("data",bundle);  
 startActivity(it);  
 }

else

{  
 Toast.*makeText*(getBaseContext(), "invalid password", Toast.*LENGTH\_LONG*).show();  
 }  
 }  
 private boolean validatePassword(String password) {  
 Pattern pattern= Pattern.*compile*(regularExpression);  
 Matcher matcher=pattern.matcher(password);  
 return matcher.matches();  
 }  
}

Login.java

package com.example.prog3;  
import androidx.appcompat.app.AppCompatActivity;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.Toast;  
  
public class Login extends AppCompatActivity implements View.OnClickListener

{  
 EditText loginusername, loginpassword;  
 Button btnlogin ;  
 String user,pass;4  
 int count=0;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_login*);  
 loginusername=(EditText)findViewById(R.id.*login\_username*);  
 loginpassword=(EditText)findViewById(R.id.*login\_password*);  
 btnlogin=(Button) findViewById(R.id.*btn\_login*);  
 btnlogin.setOnClickListener(this);  
 Bundle bundle=getIntent().getBundleExtra("data");  
 user=bundle.getString("User");  
 pass=bundle.getString("Pwd");  
 }  
  
 @Override  
 public void onClick(View view)

{  
 String user1=loginusername.getText().toString();  
 String pass1=loginpassword.getText().toString();  
 if(user.equals(user1) && pass.equals(pass1))  
 {  
 Toast.*makeText*(this, "login Successful", Toast.*LENGTH\_LONG*).show();  
 }  
 else  
 {  
 count++;  
 if(count==3)

{  
 btnlogin.setEnabled(false);  
 Toast.*makeText*(this, "Failed Login Attempts", Toast.*LENGTH\_LONG*).show();  
  
 }  
 else  
 {  
 Toast.*makeText*(this, "Login Failed" +count,Toast.*LENGTH\_LONG*).show();  
  
 }  
 }  
  
 }  
}

activity\_main.xml

<?xml version="1.0" encoding="utf-8"?>  
<androidx.constraintlayout.widget.ConstraintLayout 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=".MainActivity">  
  
 <TextView  
 android:layout\_width="270dp"  
 android:layout\_height="43dp"  
 android:text="Signup Activity"  
 android:textAlignment="center"  
 android:textColor="#D81B60"  
 android:textSize="24sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.377"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.047" />  
  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="113dp"  
 android:layout\_height="34dp"  
 android:text="Password"  
 android:textAlignment="center"  
 android:textColor="#D81B60"  
 android:textSize="20sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.053"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.335" />  
  
 <TextView  
 android:id="@+id/textView2"  
 android:layout\_width="101dp"  
 android:layout\_height="32dp"  
 android:text="Username"  
 android:textAlignment="center"  
 android:textColor="#D81B60"  
 android:textSize="20sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.09"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.203" />  
  
 <EditText  
 android:id="@+id/txt\_username"  
 android:layout\_width="254dp"  
 android:layout\_height="74dp"  
 android:ems="10"  
 android:inputType="textPersonName"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.898"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.194" />  
  
 <EditText  
 android:id="@+id/txt\_password"  
 android:layout\_width="250dp"  
 android:layout\_height="72dp"  
 android:ems="10"  
 android:inputType="textPersonName"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.875"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.335" />  
  
 <Button  
 android:id="@+id/btn\_signup"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="signup"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.444"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.54" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

Activity\_login.xml

<?xml version="1.0" encoding="utf-8"?>  
<androidx.constraintlayout.widget.ConstraintLayout 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=".MainActivity">  
  
 <TextView  
 android:layout\_width="270dp"  
 android:layout\_height="43dp"  
 android:text="Login Activity"  
 android:textAlignment="center"  
 android:textColor="#D81B60"  
 android:textSize="24sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.377"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.047" />  
  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="113dp"  
 android:layout\_height="34dp"  
 android:text="Password"  
 android:textAlignment="center"  
 android:textColor="#D81B60"  
 android:textSize="20sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.053"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.335" />  
  
 <TextView  
 android:id="@+id/textView2"  
 android:layout\_width="101dp"  
 android:layout\_height="32dp"  
 android:text="Username"  
 android:textAlignment="center"  
 android:textColor="#D81B60"  
 android:textSize="20sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.09"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.203" />  
  
 <EditText  
 android:id="@+id/login\_username"  
 android:layout\_width="254dp"  
 android:layout\_height="74dp"  
 android:ems="10"  
 android:inputType="textPersonName"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.898"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.194" />  
  
 <EditText  
 android:id="@+id/login\_password"  
 android:layout\_width="250dp"  
 android:layout\_height="72dp"  
 android:ems="10"  
 android:inputType="textPersonName"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.875"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.335" />  
  
 <Button  
 android:id="@+id/btn\_login"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="login"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.444"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.54" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>