**LAB 7**

**Task:**

1. Create an application which can take user-id and password from user, and if the credentials are valid then it shows “Login successful”, otherwise it shows “login failure” message.

Your application must have following two activities:

1. **LoginActivity**
2. **SummaryActivity**

XML CODE

MAIN ACTIVITY

*<?***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"  
 tools:context=".MainActivity"  
 android:orientation="vertical"**>  
 <**EditText  
 android:id="@+id/username"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="20dp"  
 android:hint="Username"**/>  
 <**EditText  
 android:id="@+id/password"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="20dp"  
 android:hint="Password"**/>  
 <**Button  
 android:id="@+id/btn"  
 android:onClick="login"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="LOGIN"  
 android:layout\_gravity="center"**/>  
</**LinearLayout**>

SUMMARY ACTIVITY

*<?***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="300.0dip"  
 android:layout\_height="400.0dip"  
 android:layout\_gravity="center"  
 android:background="#a6aaad"  
 tools:context=".SummaryActivity"**>  
 <**TextView  
 android:id="@+id/textView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="TextView"  
 android:textSize="20sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"** />  
</**androidx.constraintlayout.widget.ConstraintLayout**>

JAVA CODE  
MAIN ACTIVITY

**package** com.example.lab;  
**import** android.content.Intent;  
**import** android.os.Bundle;  
**import** androidx.appcompat.app.AppCompatActivity;  
**import** android.text.Editable;  
**import** android.text.TextWatcher;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.EditText;  
**public class** MainActivity **extends** AppCompatActivity {  
 EditText **username**;  
 EditText **password**;  
 **boolean a** = **false**;  
 **boolean b** = **false**;  
 Button **button**;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
  
 **username** = (EditText) findViewById(R.id.***username***);  
 **password** = (EditText) findViewById(R.id.***password***);  
 **button** = (Button) findViewById(R.id.***btn***);  
 **button**.setEnabled(**false**);  
  
 **username**.addTextChangedListener(**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) {  
 **if**(count > 0){  
 **a** = **true**;  
 }  
 **if**(**a** == **true** && **b** == **true**){  
 **button**.setEnabled(**true**);  
 }  
 }  
  
 @Override  
 **public void** afterTextChanged(Editable s) {  
  
 }  
 });  
  
 **password**.addTextChangedListener(**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) {  
 **if**(count > 0){  
 **b** = **true**;  
 }  
 **if**(**a** == **true** && **b** == **true**){  
 **button**.setEnabled(**true**);  
 }  
 }  
  
 @Override  
 **public void** afterTextChanged(Editable s) {  
  
 }  
 });  
  
 }  
  
 **public void** login(View view) {  
 Intent i = **new** Intent(getBaseContext(), SummaryActivity.**class**);  
 **if**(**username**.getText().toString().equals(**"Alpha"**) && **password**.getText().toString().equals(**"alpha"**)){  
 i.putExtra(**"SorN"**, **"LOGIN SUCCESSFULL"**);  
 }  
 **else** {  
 i.putExtra(**"SorN"**, **"INVALID CREDENTIALS"**);  
 }  
 startActivity(i);  
 }  
}

SUMMARY ACTIVITY

**package** com.example.lab;  
  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**import** android.os.Bundle;  
**import** android.widget.TextView;  
  
**public class** SummaryActivity **extends** AppCompatActivity {  
 TextView **textView**;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_summary***);  
 **textView** = findViewById(R.id.***textView***);  
 **textView**.setText(getIntent().getStringExtra(**"SorN"**));  
 }  
}

OUTPUT  


 