

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:

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- a) **LoginActivity**
 - b) **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="300.0dip"
        android:layout_height="400.0dip"
        android:layout_gravity="center"
        android:background="#a6aaad"
        android:text="Login successful"
        android:textColor="black"
        android:textSize="18sp"/>
</androidx.constraintlayout.widget.ConstraintLayout>
```

```

        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(getApplicationContext(), 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

