Practical 10

Mobile Application Development

Question 1. Write a program to create a login form for a social networking site.

MainActivity.java

```java
package com.example.practical10;
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 MainActivity extends AppCompatActivity {
    Button b;
    EditText uname,pass;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        b = findViewById(R.id.loginbtn);
        uname = findViewById(R.id.username);
        pass = findViewById(R.id.pass);
        View.OnClickListener cl= new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String user = uname.getText().toString();
                String pw = pass.getText().toString();
                if (user.equals("admin") && pw.equals("Admin"))
                    Toast.makeText(MainActivity.this, "Login successful",
Toast.LENGTH_LONG).show();
                else
                    Toast.makeText(MainActivity.this, "Invalid id or password",
Toast.LENGTH_LONG).show();
            }
        };
        b.setOnClickListener(cl);
    }
}
```

activity_main.xml

```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"
```

```xml
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">
<TableLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginTop="100dp">
    <TableRow
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginLeft="20dp"
        >
        <TextView
            android:id="@+id/textView1"
            android:layout_width="79dp"
            android:layout_height="wrap_content"
            android:text="Username:" />
        <EditText
            android:id="@+id/username"
            android:layout_width="187dp"
            android:layout_height="wrap_content"
            android:layout_marginLeft="20dp"
            android:hint="Enter username here" />
    </TableRow>
    <TableRow
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginLeft="20dp"
        >
        <TextView
            android:id="@+id/TextView2"
            android:layout_width="79dp"
            android:layout_height="wrap_content"
            android:text="Password:" />
        <EditText
            android:id="@+id/pass"
            android:layout_width="187dp"
            android:layout_height="wrap_content"
            android:layout_marginLeft="20dp"
            android:hint="Enter password here"
            android:password="true"/>
    </TableRow>
    <TableRow
        android:layout_width="match_parent"
```

```
            android:layout_height="match_parent"
            android:layout_marginLeft="20dp"
            android:layout_marginTop="20dp">
            <Button
                android:id="@+id/loginbtn"
                android:layout_width="163dp"
                android:layout_height="match_parent"
                android:layout_column="1"
                android:text="Login"
                android:layout_marginLeft="25dp"
                android:layout_marginRight="50dp"/>
        </TableRow>
    </TableLayout>
</androidx.constraintlayout.widget.ConstraintLayout>
```

Output