MOBILE APPLICATION DEVELEPOMENT LAB

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Aim

1. Design a Login Form with username and password using LinearLayout and toast valid credentials

Procedure

Activity.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"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <LinearLayout
        android:id="@+id/linearLayout"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"

        android:layout_centerHorizontal="true"
        android:layout_centerVertical="true"
        android:orientation="vertical"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintTop_toTopOf="parent">

        <EditText
            android:id="@+id/username"
```

```xml
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="UserName" />


    <EditText
        android:id="@+id/password"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="password"
        android:inputType="textPassword" />


    <Button
        android:id="@+id/login"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:background="#3f76ff"
        android:text="Login"
        android:textColor="#fff" />


</LinearLayout>

<TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Login"
        android:textSize="34sp"
        app:layout_constraintBottom_toTopOf="@+id/linearLayout"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.732"
        tools:layout_editor_absoluteX="153dp" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

Main Activity.java

```java
package com.example.lifecycle2;

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;
import java.util.Objects;
public class MainActivity extends AppCompatActivity {
    EditText username,password;
    Button login;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        username=findViewById(R.id.username);
        password=findViewById(R.id.password);
        login=findViewById(R.id.login);
        login.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                if(Objects.equals(username.getText().toString(),
"admin")&&Objects.equals(password.getText().toString(),"admin"))
                {
                    Toast.makeText(MainActivity.this,"valid credentials",Toast.LENGTH_LONG).show();
                }else
                {
                    Toast.makeText(MainActivity.this,"Authentication Failed",Toast.LENGTH_LONG).show();
```

```
        }
      }
    });
  }
}
```

Output :-