Experiment No. 4

Aim: Create sample application with login module. (Check username and password), validate it for login screen or alert the user with a Toast.

Program:

• Activity.xml:-

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
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"
    android:orientation="vertical"
    android:background="@color/mor"
    tools:context=".MainActivity">
    <TextView
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:id="@+id/tv1"
        android:text="Login Form"
        android:textStyle="bold"
        android:textSize="35sp"
        android:textColor="@color/purple 500"
        android:layout centerHorizontal="true"
        android:layout marginTop="100dp"/>
    <TextView
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:id="@+id/tv2"
        android:text="Name:"
        android:textSize="20dp"
        android:layout marginTop="175dp"/>
    <EditText
        android:id="@+id/et1"
        android:layout width="match parent"
        android:layout height="wrap content"
        android:layout below="@+id/tv1"
        android:layout marginLeft="45dp"
        android:layout marginTop="15dp"
        android:layout toRightOf="@+id/tv2"
        android:gravity="center"
```

```
android:minHeight="48dp" />
    <TextView
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:id="@+id/tv3"
        android:text="Password:"
        android:textSize="20dp"
        android:layout marginTop="235dp"/>
    <EditText
        android:layout width="match parent"
        android:layout height="wrap content"
        android:id="@+id/et2"
        android:layout below="@+id/et1"
        android:layout marginLeft="15dp"
        android:layout marginTop="15dp"
        android:layout toRightOf="@+id/tv3"
        android:gravity="center"
        android:hint="Please Enter Your Password"
        android:inputType="textPassword"
        android:minHeight="48dp"/>
    <Button
        android:id="@+id/log"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:layout marginTop="35dp"
        android:padding="13dp"
        android:layout marginLeft="175dp"
        android:layout below="@+id/et2"
        android:text="Login"
        android:onClick="Login"
        />
</RelativeLayout>
  colors.xml:-
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <color name="purple 200">#FFBB86FC</color>
    <color name="purple 500">#FF6200EE</color>
    <color name="purple 700">#FF3700B3</color>
    <color name="teal 200">#FF03DAC5</color>
    <color name="teal 700">#FF018786</color>
    <color name="black">#FF000000</color>
    <color name="white">#FFFFFFFF<//color>
    <color name="mor">#08E3FF</color>
</resources>
```

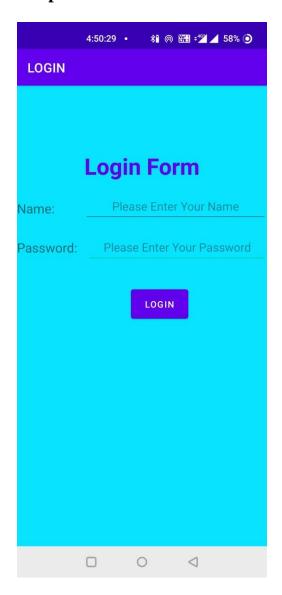
android:hint="Please Enter Your Name"

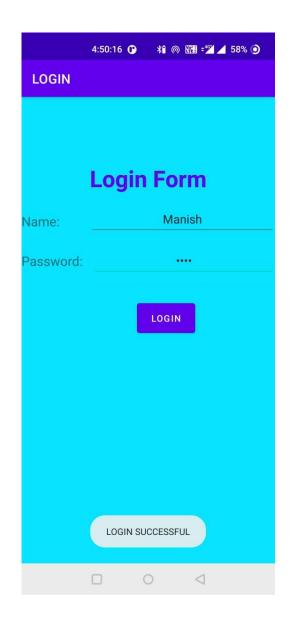
• MainActivity.java:-

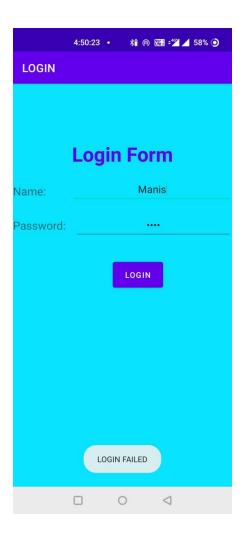
```
package com.example.login;
import static com.example.login.R.id.log;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
    EditText ed1, ed2;
    Button bt;
    String uname, upass;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        ed1 = findViewById(R.id.et1);
        ed2 = findViewById(R.id.et2);
        bt = findViewById(R.id.log);
    }
    public void Login(View view) {
        uname = ed1.getText().toString();
        upass = ed2.getText().toString();
        if (uname.equals("Manish") && upass.equals("2809")) {
            Toast.makeText(this, "LOGIN SUCCESSFUL",
Toast.LENGTH SHORT) .show();
        }
        else {
            Toast.makeText(this, "LOGIN FAILED",
Toast.LENGTH SHORT).show();
    }
}
```

Android Experiment No. 4

Output:







Conclusion:

Hence, by completing this experiment I came to know that how to Create application for demonstration of android activity life cycle.

Writeup & Oral (4)	Practical Performance (4)	Attendance (2)	Total (10)