## **Experiment No. 5**

**Aim:** Create and validate a login application using username as Email ID else login button must remain disabled.

#### **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:background="@color/mor"
    android:orientation="vertical"
    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="Email:"
        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:hint="Please Enter Your Email Id"
```

```
<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"
        android:enabled="false"
        />
</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:inputType="textEmailAddress"

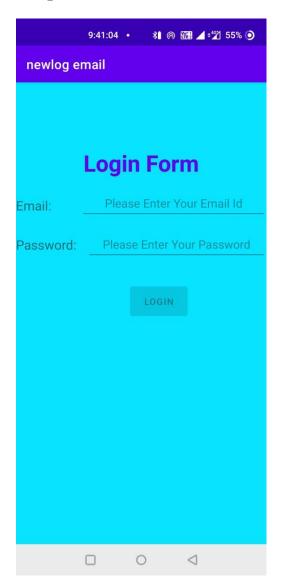
android:minHeight="48dp" />

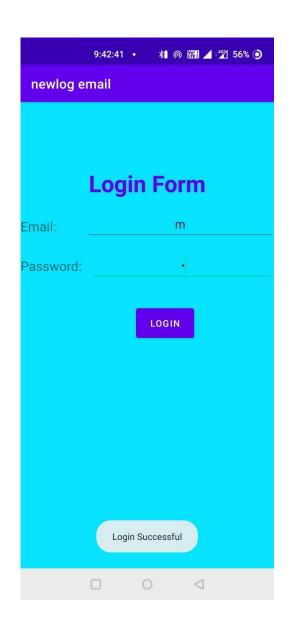
## • MainActivity.java:-

## A) onTextChanged Method:-

```
package com.example.newlogemail;
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle;
import android.text.Editable;
import android.text.TextWatcher;
import android.util.Log;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
importcom.google.android.material.internal.TextWatcherAdapter;
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.et1);
        password= findViewById(R.id.et2);
        Login= findViewById(R.id.log);
        username.addTextChangedListener(LoginText);
        password.addTextChangedListener(LoginText);
    private TextWatcher LoginText= new TextWatcher() {
        @Override
        public void beforeTextChanged(CharSequence
charSequence, int i, int i1, int i2) {
        @Override
        public void onTextChanged(CharSequence charSequence,
int i, int i1, int i2) {
        if(!username.equals("") && !password.equals("")){
            Login.setEnabled(true);
        }
        @Override
        public void afterTextChanged(Editable editable) {
    };
    public void Login(View view) {
        Toast.makeText(this, "Login Successful",
Toast.LENGTH SHORT) .show();
}
```

## **Output:**



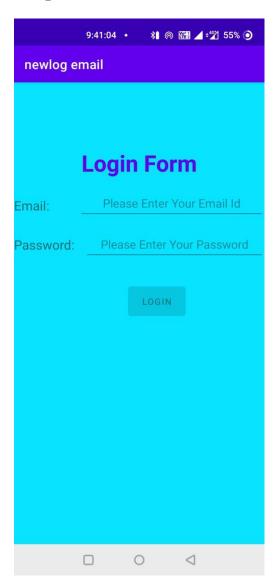


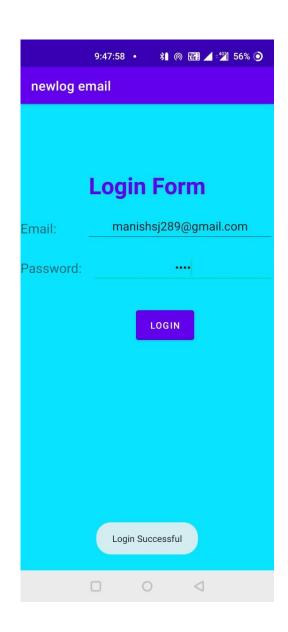
## B) afterTextChanged Method:-

```
package com.example.newlogemail;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.text.Editable;
import android.text.TextWatcher;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
import
com.google.android.material.internal.TextWatcherAdapter;
```

```
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.et1);
        password= findViewById(R.id.et2);
        Login= findViewById(R.id.log);
        username.addTextChangedListener(LoginText);
        password.addTextChangedListener(LoginText);
    private TextWatcher LoginText= new TextWatcher() {
        @Override
        public void beforeTextChanged(CharSequence
charSequence, int i, int i1, int i2) {
        }
        @Override
        public void onTextChanged(CharSequence charSequence,
int i, int i1, int i2) {
        }
        @Override
        public void afterTextChanged(Editable editable) {
if (username.getText().toString().equals("manishsj289@gmail.com
") && password.getText().toString().equals("2809")) {
                Login.setEnabled(true);
        }
    };
    public void Login(View view) {
        Toast.makeText(this, "Login Successful",
Toast.LENGTH SHORT).show();
```

# **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<br>(4) | Practical<br>Performance<br>(4) | Attendance (2) | <b>Total</b> (10) |
|-----------------------|---------------------------------|----------------|-------------------|
|                       |                                 |                |                   |