**PRACTICAL-6.1**

**AIM:**

1. **Create login application where you will have to validate EmailID (UserName). Till the username and password is not validated, login button should remain disabled.**
2. **On successful login, go to on new Acticity.**

**PROGRAM CODE:**

* **AndroidManifest.xml:**

*<?*xml version="1.0" encoding="utf-8"*?>*<manifest xmlns:android="http://schemas.android.com/apk/res/android"  
 package="com.parthnpatel.login">  
  
 <application  
 android:allowBackup="true"  
 android:icon="@mipmap/ic\_launcher"  
 android:label="@string/app\_name"  
 android:roundIcon="@mipmap/ic\_launcher\_round"  
 android:supportsRtl="true"  
 android:theme="@style/Theme.Login">  
 <activity android:name=".SecondActivity"></activity>  
 <activity  
 android:name=".MainActivity"  
 android:exported="true">  
 <intent-filter>  
 <action android:name="android.intent.action.MAIN" />  
  
 <category android:name="android.intent.category.LAUNCHER" />  
 </intent-filter>  
 </activity>  
 </application>  
  
</manifest>

* **Activity\_main.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">  
  
 <TextView  
 android:id="@+id/name"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/parth\_patel\_19dcs098"  
 android:textColor="#DD2C00"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.533"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.085" />  
  
 <TextView  
 android:id="@+id/display1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:fontFamily="casual"  
 android:text="@string/enter\_the\_user\_name"  
 android:textSize="20sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.487"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.21" />  
  
 <EditText  
 android:id="@+id/userName"  
 android:layout\_width="276dp"  
 android:layout\_height="48dp"  
 android:layout\_marginTop="52dp"  
 android:ems="10"  
 android:fontFamily="sans-serif-condensed"  
 android:hint="@string/username"  
 android:importantForAutofill="no"  
 android:inputType="textPersonName"  
 android:minHeight="48dp"  
 android:textAlignment="center"  
 android:textColorHint="#757575"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.532"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/display1" />  
  
 <TextView  
 android:id="@+id/display2"  
 android:layout\_width="219dp"  
 android:layout\_height="53dp"  
 android:layout\_marginTop="60dp"  
 android:fontFamily="casual"  
 android:text="@string/enter\_the\_password"  
 android:textSize="20sp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.526"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/userName" />  
  
 <EditText  
 android:id="@+id/password"  
 android:layout\_width="280dp"  
 android:layout\_height="48dp"  
 android:layout\_marginTop="68dp"  
 android:ems="10"  
 android:fontFamily="sans-serif-condensed"  
 android:hint="@string/password"  
 android:importantForAutofill="no"  
 android:inputType="textPassword"  
 android:minHeight="48dp"  
 android:textAlignment="center"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.549"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/display2"  
 tools:ignore="SpeakableTextPresentCheck" />  
  
 <Button  
 android:id="@+id/button"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="96dp"  
 android:backgroundTint="#8BC34A"  
 android:enabled="false"  
 android:text="@string/login"  
 android:textColor="#37474F"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.533"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/password"  
 app:layout\_constraintVertical\_bias="0.0" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

* **Activity\_second.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"  
 android:background="#FFEB3B">  
  
 <TextView  
 android:id="@+id/textView1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:background="#FF5722"  
 android:fontFamily="casual"  
 android:text="@string/you\_logged\_in\_succesfully"  
 android:textSize="20sp"  
 app:layout\_constraintBottom\_toTopOf="@+id/textView2"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.498"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.391" />  
  
 <TextView  
 android:id="@+id/textView2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginBottom="356dp"  
 android:background="#F44336"  
 android:fontFamily="casual"  
 android:text="@string/welcome\_19dcs098"  
 android:textSize="20sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.498"  
 app:layout\_constraintStart\_toStartOf="parent" />  
</androidx.constraintlayout.widget.ConstraintLayout>

* **Strings.xml:**

<resources>  
 <string name="app\_name">Login</string>  
 <string name="parth\_patel\_19dcs098">PARTH PATEL-19DCS098</string>  
 <string name="enter\_the\_user\_name">Enter the user name :</string>  
 <string name="enter\_the\_password">Enter the Password</string>  
 <string name="login">LOGIN</string>  
 <string name="username">UserName</string>  
 <string name="password">password</string>  
 <string name="you\_logged\_in\_succesfully">You Logged in Succesfully!!!</string>  
 <string name="welcome\_19dcs098">WELCOME!! 19DCS098</string>  
  
</resources>

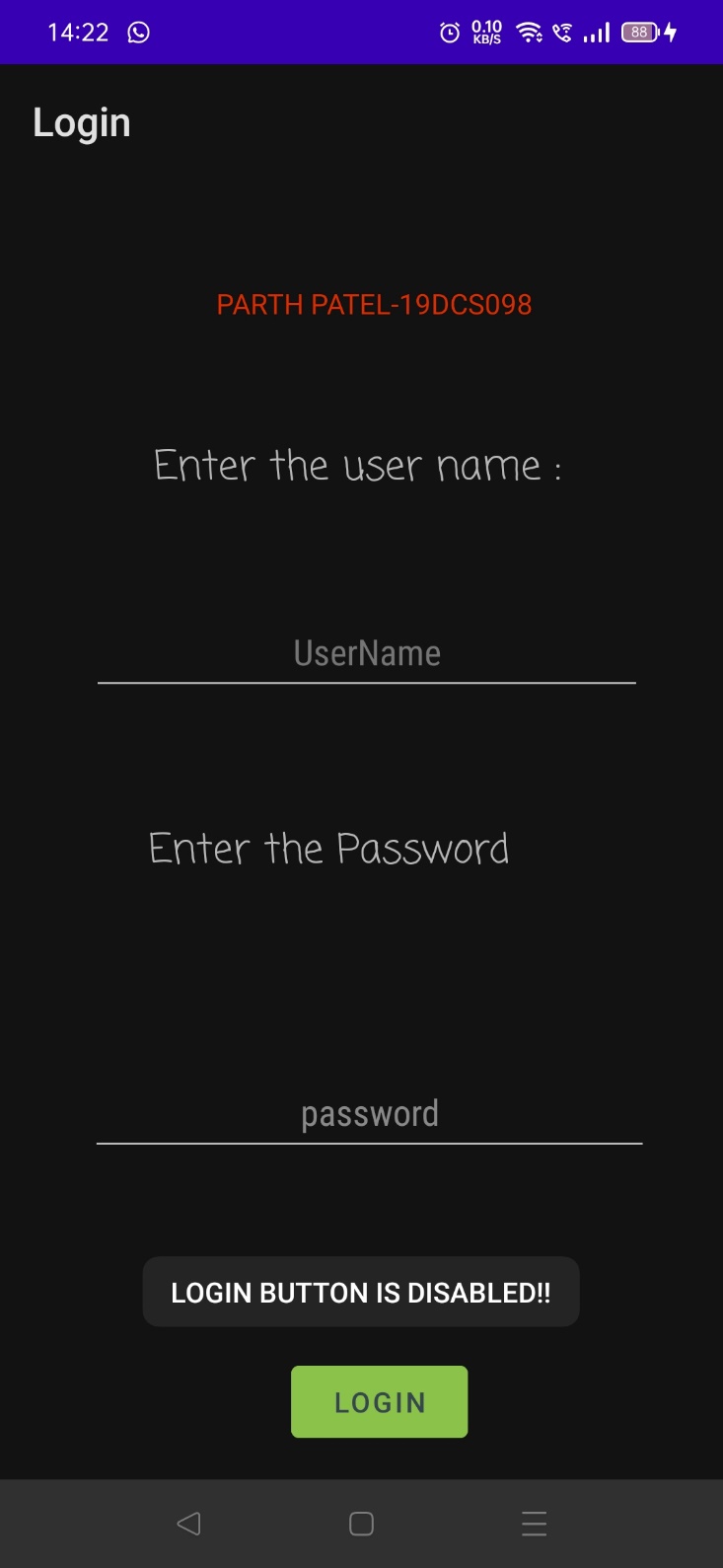
* **MainActivity.java:**

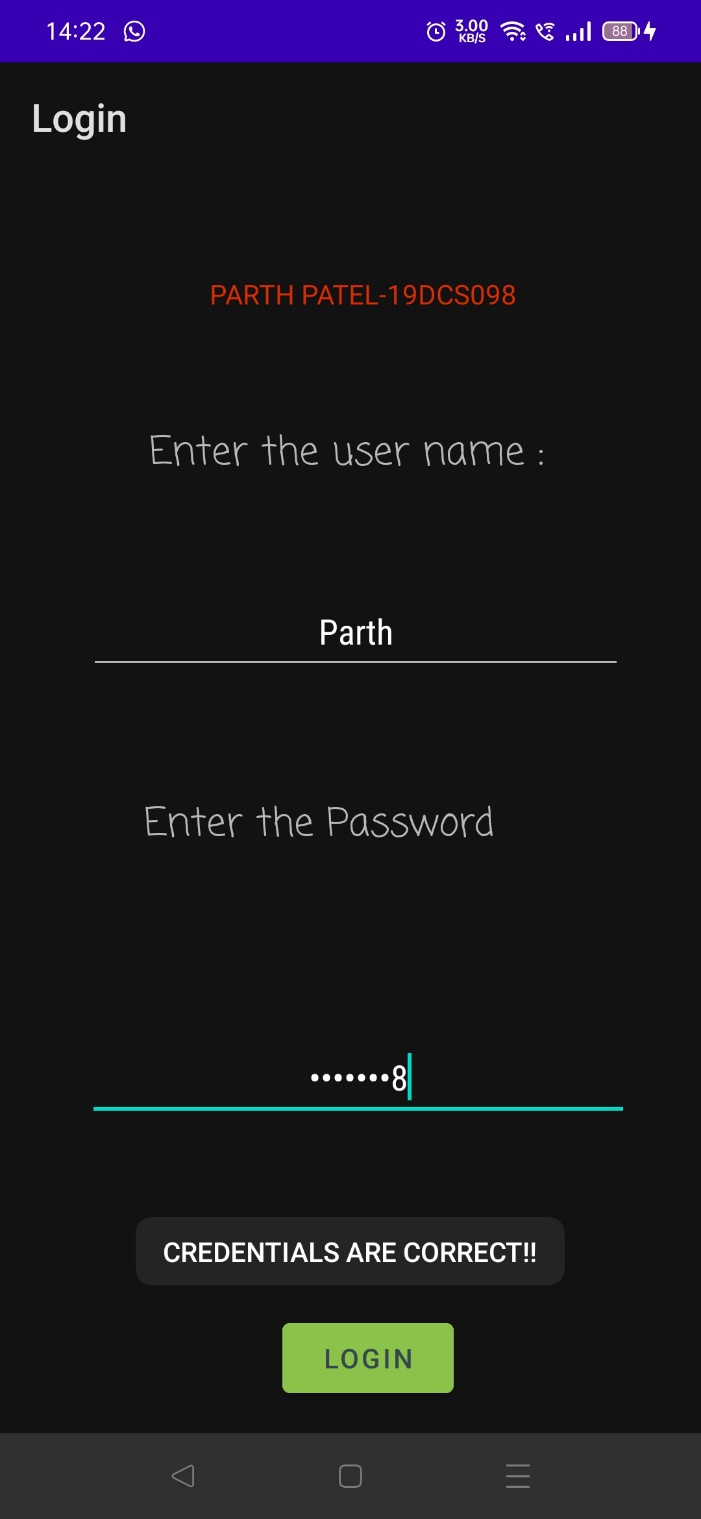
package com.parthnpatel.login;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.text.Editable;  
import android.text.TextWatcher;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity implements TextWatcher, View.OnClickListener {  
  
 private EditText name,password;  
 private Button btn;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_main);  
  
 name=findViewById(R.id.userName);  
 password=findViewById(R.id.password);  
 btn=findViewById(R.id.button);  
  
 name.addTextChangedListener(this);  
 password.addTextChangedListener( this);  
 btn.setOnClickListener(this);  
  
 Toast.makeText(getApplicationContext(),"LOGIN BUTTON IS DISABLED!!",Toast.LENGTH\_LONG).show();  
  
  
 }  
  
 @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((name.getText().toString().equals("Parth")) && password.getText().toString().equals("19DCS098")) {  
  
 btn.setEnabled(true);  
  
 Toast.makeText(getApplicationContext(), "CREDENTIALS ARE CORRECT!!", Toast.LENGTH\_LONG).show();  
 }  
 }  
  
 @Override  
 public void onClick(View view) {  
  
 //Toast.makeText(getApplicationContext(), "LOGIN SUCCESSFUL!!", Toast.LENGTH\_SHORT).show();  
  
 Intent intent=new Intent(this,SecondActivity.class);  
 startActivity(intent);  
  
  
 }  
}

* **SecondActivity.java:**

package com.parthnpatel.login;  
  
import android.os.Bundle;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
public class SecondActivity extends AppCompatActivity {  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_second);  
 }  
}

**OUTPUT:**







**AFTER CLICKING ON THE ACTIVATED LOGIN BUTTON, THE ABOVE NEW ACTIVITY BEGINS**