

## **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 Activity.**

### **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.textEditable;
```

```
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
```

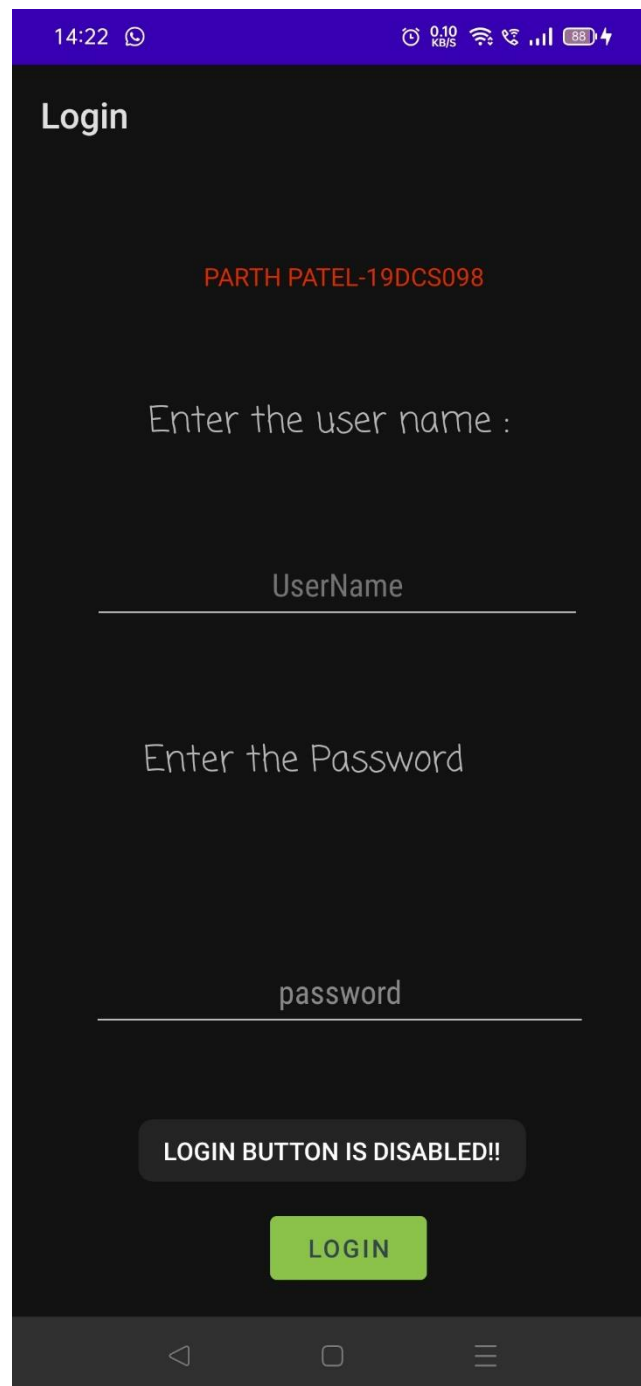
```
    protected void onCreate(Bundle savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_second);
```

```
    }
```

```
}
```

**OUTPUT:**

The screenshot shows a mobile application interface for a login screen. At the top, there is a status bar with the time 14:22, a clock icon, network speed 0.10 KB/S, Wi-Fi, cellular signal, and battery level 88%. The app title "Login" is displayed in the top left corner. Below the title, the text "PARTH PATEL-19DCS098" is shown in red. The main content area has a dark background. It contains two input fields: "Enter the user name :" followed by a text input field with the placeholder "UserName", and "Enter the Password" followed by a text input field with the placeholder "password". Below these fields, there is a message "LOGIN BUTTON IS DISABLED!!" in a dark grey box. At the bottom, there is a green "LOGIN" button. The bottom of the screen shows the Android navigation bar with back, home, and recent apps icons.

14:22

3.00 KB/s

Login

PARTH PATEL-19DCS098

Enter the user name :

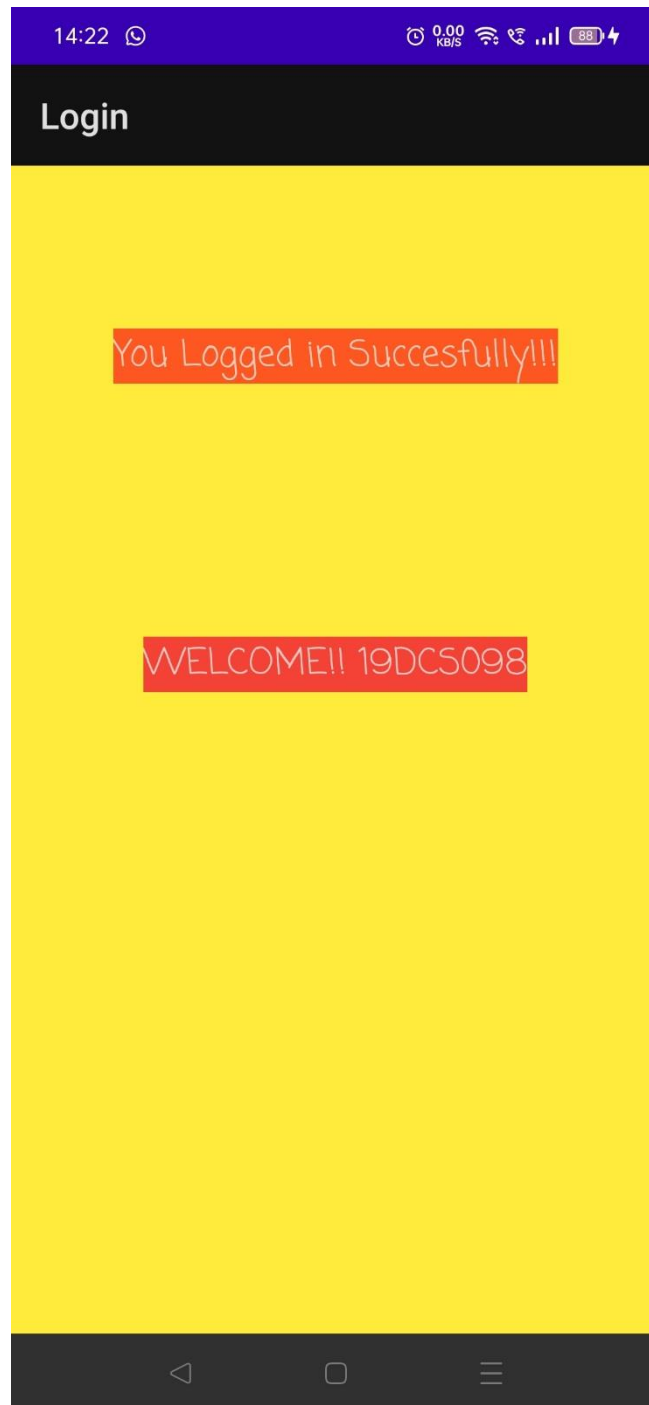
Parth

Enter the Password

.....8

CREDENTIALS ARE CORRECT!!

LOGIN



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