

# Login App-

## MainActivity.java-

```
package com.lab4.loginapplication;

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 uid,upass;
    Button b1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        uid=findViewById(R.id.uid);
        upass=findViewById(R.id.upass);
        b1=findViewById(R.id.lgn);
        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {

if(("ishan".equals(uid.getText().toString())&&"123".equals(upass.getText().toString()))
||("ISHAN".equals(uid.getText().toString())&&"123".equals(upass.getText().toString())))
{
                Toast.makeText(getApplicationContext(),"Success",
Toast.LENGTH_SHORT).show();

                }
                else
                {
                    Toast.makeText(getApplicationContext(),"Failed",
Toast.LENGTH_SHORT).show();
                }
            }
        });
    }
}
```

## 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"
tools:layout_editor_absoluteX="0dp"
tools:layout_editor_absoluteY="0dp">

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
```

```
android:layout_height="wrap_content"
android:text="LOGIN"
android:textSize="30sp"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.501"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.15" />
```

<EditText

```
android:id="@+id/uid"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="80dp"
android:ems="10"
android:hint="ID"
android:inputType="textPersonName"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.502"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/textView" />
```

<EditText

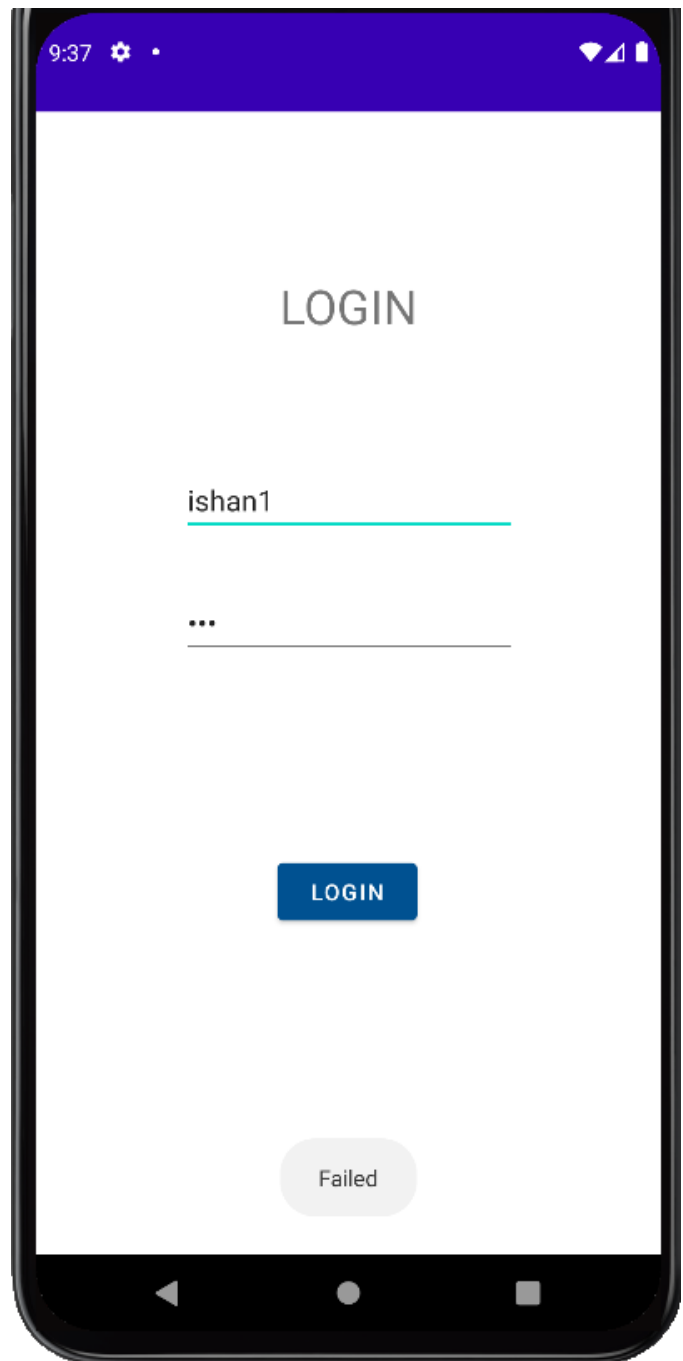
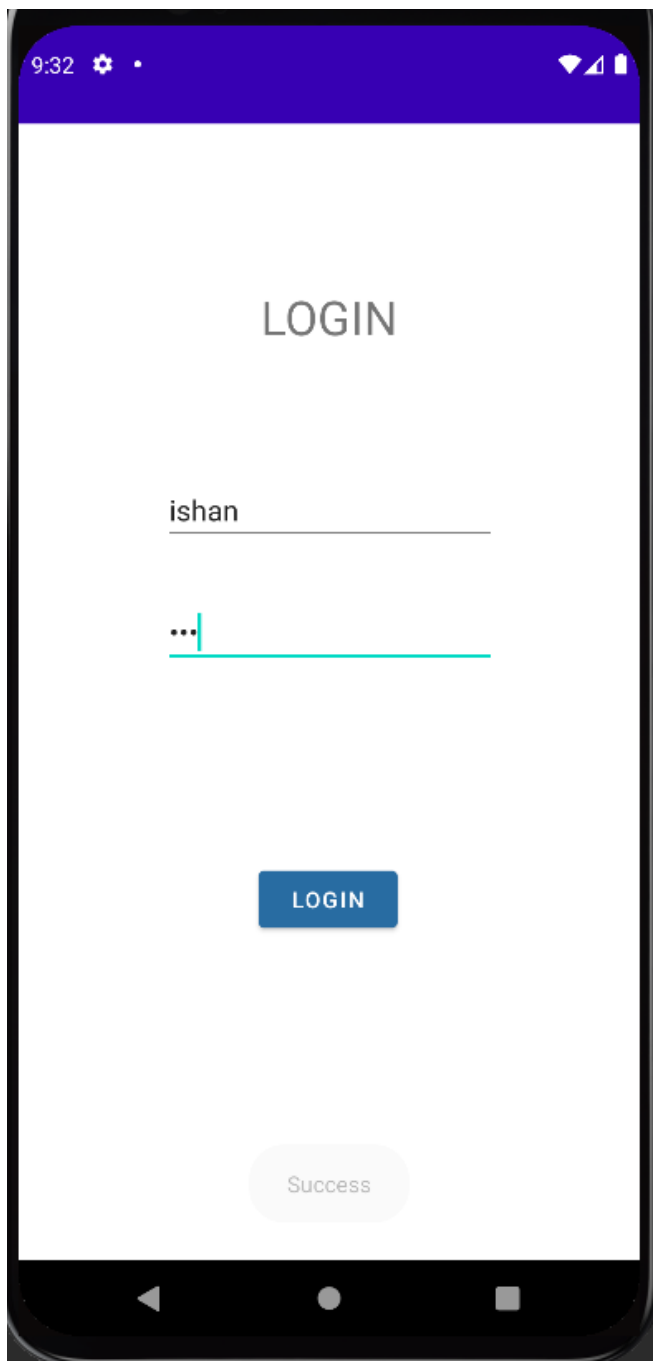
```
android:id="@+id/upass"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="32dp"
android:ems="10"
android:hint="Password"
android:inputType="textPassword"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.502"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/uid" />
```

<Button

```
android:id="@+id/lgn"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="80dp"
android:text="Login"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.498"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/upass"
app:layout_constraintVertical_bias="0.171" />
```

</androidx.constraintlayout.widget.ConstraintLayout>

## ScreenShot-



# TempConverter-

## MainActivity.java-

```
package com.lab4.temp_converter;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {
    RadioGroup r1, r2;
    RadioButton rb1, rb2, rb3, rb4;
    Button b1;
    EditText e1;
    TextView t1;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        r1 = findViewById(R.id.rgf);
        r2 = findViewById(R.id.rgt);
        rb1 = findViewById(R.id.ff);
        rb2 = findViewById(R.id.fc);
        rb3 = findViewById(R.id.tf);
        rb4 = findViewById(R.id.tc);
        b1 = findViewById(R.id.convert);
        e1 = findViewById(R.id.number);
        t1 = findViewById(R.id.result);
        b1.setOnClickListener(new View.OnClickListener() {

            @Override
            public void onClick(View v) {
                int fId = r1.getCheckedRadioButtonId();
                int tId = r2.getCheckedRadioButtonId();
                // find which radioButton is checked by id
                if(fId == rb1.getId() && tId == rb3.getId()) {
                    t1.setText(e1.getText().toString());
                } else if(fId == rb2.getId() && tId == rb4.getId()) {
                    t1.setText(e1.getText().toString());
                } else if(fId == rb1.getId() && tId == rb4.getId()) {
                    long num= Long.parseLong(e1.getText().toString());
                    double r=((num-32)*(5/9));
                    t1.setText(String.valueOf(r));
                }
                else if(fId == rb2.getId() && tId == rb3.getId()) {
                    long num= Long.parseLong(e1.getText().toString());
                    double r=((num*9/5)+32);
                    t1.setText(String.valueOf(r));
                }
            }
        });
    }
}
```

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/textView3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Enter"
        android:textSize="30sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintHorizontal_bias="0.179"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.112" />

    <EditText
        android:id="@+id/number"
        android:layout_width="133dp"
        android:layout_height="43dp"
        android:layout_marginTop="72dp"
        android:ems="10"
        android:inputType="textPersonName"
        android:textSize="20sp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.503"
        app:layout_constraintStart_toEndOf="@+id/textView3"
        app:layout_constraintTop_toTopOf="parent" />

    <RadioGroup
        android:id="@+id/rgf"
        android:layout_width="134dp"
        android:layout_height="94dp"
        app:layout_constraintBottom_toTopOf="@+id/convert"
        app:layout_constraintEnd_toStartOf="@+id/rgt"
        app:layout_constraintHorizontal_bias="0.5"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textView">

        <RadioButton
            android:id="@+id/ff"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="Fahrenheit" />

        <RadioButton
            android:id="@+id/fc"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="Celsius" />

    </RadioGroup>

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="From"
        android:textSize="20sp"
```

```
app:layout_constraintBottom_toTopOf="@+id/rgf"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintEnd_toStartOf="@+id/textView2"
app:layout_constraintHorizontal_bias="0.326"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/textView3"
app:layout_constraintVertical_bias="0.54" />

<TextView
    android:id="@+id/textView2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="To"
    android:textSize="20sp"
    app:layout_constraintBottom_toTopOf="@+id/rgf"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.591"
    app:layout_constraintStart_toEndOf="@+id/textView3"
    app:layout_constraintTop_toBottomOf="@+id/number"
    app:layout_constraintVertical_bias="0.552" />

<RadioGroup
    android:id="@+id/rgt"
    android:layout_width="134dp"
    android:layout_height="94dp"
    app:layout_constraintBottom_toTopOf="@+id/convert"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.5"
    app:layout_constraintStart_toEndOf="@+id/rgf"
    app:layout_constraintTop_toBottomOf="@+id/textView2">

    <RadioButton
        android:id="@+id/tf"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Fahrenheit" />

    <RadioButton
        android:id="@+id/tc"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Celsius" />
</RadioGroup>

<Button
    android:id="@+id/convert"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Convert"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.498"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/rgf" />

<TextView
    android:id="@+id/result"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Result"
    app:layout_constraintBottom_toTopOf="@+id/convert"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.5"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/rgf" />
```

```
<androidx.constraintlayout.widget.Guideline
    android:id="@+id/guideline2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    app:layout_constraintGuide_begin="20dp" />

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

## ScreenShot-

