Practical 5

AIM: Create a login application with the following features:

- 1. Successful Login message in TextView with Green background if Username & password is correct
- 2. Failure message in TextView with Red background if Username or password is incorrect.
- 3. Disable Login Button after three wrong log in attempts.
- 4. Close application if the user selects Cancel Button.

Source Code:

Java File/s:

MainActivity.java

```
package com.example.login;
import androidx.appcompat.app.AppCompatActivity;
import android.view.View;
import android.widget.Button;
import android.widget.ImageButton;
import android.widget.EditText;
import android.widget.TextView;
import android.os.Bundle;
import android.widget.Toast;
import android.graphics.Color;
public class MainActivity extends AppCompatActivity {
  EditText username, passwd, name;
  Button b1,b2;
  ImageButton iB;
  TextView tx1;
 int counter = 3:
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    b1 = (Button)findViewById(R.id.login);
    b1.setVisibility(View.VISIBLE);
    iB=(ImageButton)findViewById(R.id.iB);
    username=(EditText) findViewById(R.id.username);
    passwd=(EditText) findViewById(R.id.password);
```

```
iB.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View v) {
         Toast.makeText(getApplicationContext(),"Password contains atleast 6 charac-
ter including digits", Toast. LENGTH LONG). show();
      }
    });
    tx1 = (TextView) findViewById(R.id.textView3);
    tx1.setVisibility(View.GONE);
    b1.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View v) {
         if(username.getText().toString().equals("kunj") &&
             passwd.getText().toString().equals("kunj@123")) {
           Toast.makeText(getApplicationContext(),
               "Redirecting...",Toast.LENGTH_SHORT).show();
         }else{
      Toast.makeText(getApplicationContext(), "Wrong Credentials", Toast.LENGTH-
SHORT).show();
           tx1.setVisibility(View.VISIBLE);
           tx1.setBackgroundColor(Color.RED);
           counter--;
           tx1.setText(Integer.toString(counter));
           if (counter == 0) {
             b1.setEnabled(false);
          }
        }
      }
    });
  }
```

Layout File/s: 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"</pre>
```

```
xmlns:tools="http://schemas.android.com/tools"
android:id="@+id/container"
android:layout width="match parent"
android:layout height="match parent"
android:background="#F5C3C3">
<EditText
  android:id="@+id/username"
  android:layout width="296dp"
  android:layout height="46dp"
  android:layout marginStart="24dp"
  android:layout marginTop="128dp"
  android:layout marginEnd="24dp"
  android:hint="username"
  android:inputType="textEmailAddress"
  android:selectAllOnFocus="true"
  app:layout constraintEnd toEndOf="parent"
  app:layout constraintHorizontal bias="0.0"
  app:layout constraintStart toStartOf="parent"
  app:layout constraintTop toTopOf="parent" />
<EditText
  android:id="@+id/password"
  android:layout width="296dp"
  android:layout height="46dp"
  android:layout marginStart="24dp"
  android:layout marginTop="56dp"
  android:layout marginEnd="24dp"
  android:hint="password"
  android:imeOptions="actionDone"
  android:inputType="textPassword"
  android:selectAllOnFocus="true"
  app:layout constraintEnd toEndOf="parent"
  app:layout constraintHorizontal bias="0.0"
  app:layout constraintStart toStartOf="parent"
  app:layout constraintTop toBottomOf="@+id/username" />
<Button
  android:id="@+id/login"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:layout gravity="start"
  android:layout marginStart="48dp"
  android:layout marginTop="16dp"
  android:layout marginEnd="48dp"
```

```
android:layout marginBottom="64dp"
  android:enabled="true"
  android:text="login"
  app:layout constraintBottom toBottomOf="parent"
  app:layout constraintEnd toEndOf="parent"
  app:layout constraintStart toStartOf="parent"
  app:layout constraintTop toBottomOf="@+id/password"
  app:layout constraintVertical bias="0.2" />
< Progress Bar
  android:id="@+id/loading"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:layout gravity="center"
  android:layout marginStart="32dp"
  android:layout marginTop="64dp"
  android:layout marginEnd="32dp"
  android:layout marginBottom="64dp"
  android:visibility="gone"
  app:layout constraintBottom toBottomOf="parent"
  app:layout constraintEnd toEndOf="@+id/password"
  app:layout constraintStart toStartOf="@+id/password"
  app:layout constraintTop toTopOf="parent"
  app:layout constraintVertical bias="0.3" />
<TextView
  android:id="@+id/textView"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:background="#B9F5A2"
  android:text="Login Into Account:"
  android:textColor="#673AB7"
  android:textSize="24sp"
  app:layout constraintBottom toBottomOf="parent"
  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="0.071"/>
<TextView
  android:id="@+id/textView3"
  android:layout width="88dp"
  android:layout height="36dp"
  android:text="TextView"
  app:layout constraintBottom toBottomOf="parent"
```

```
app:layout constraintEnd toEndOf="parent"
    app:layout constraintStart toStartOf="parent"
    app:layout constraintTop toTopOf="parent"
    app:layout constraintVertical bias="0.658"/>
  < Image Button
    android:id="@+id/iB"
    android:layout width="34dp"
    android:layout height="33dp"
    android:tint="#07515E"
    app:layout constraintBottom toBottomOf="parent"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintHorizontal bias="1.0"
    app:layout constraintStart toStartOf="parent"
    app:layout constraintTop toTopOf="parent"
    app:layout constraintVertical bias="0.56"
    app:srcCompat="@android:drawable/ic menu info details" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

Output:

