PRACTICAL-2.2

AIM:

Create a login Create application with 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 login attempts.
- 4. Close application if user selects Cancel Button.

PROGRAM CODE:

• XML CODE:

```
<?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">

<EditText
    android:layout_width="wrap_content"</pre>
```

```
android:layout_height="wrap_content"
  android:ems="10"
  android:hint="@string/name"
  android:importantForAutofill="no"
  android:inputType="textPersonName"
  android:minHeight="50dp"
  android:textAlignment="center"
  android:textColor="#FF9800"
  app:layout_constraintBottom_toBottomOf="parent"
  app:layout_constraintEnd_toEndOf="parent"
  app:layout_constraintHorizontal_bias="0.442"
  app:layout_constraintStart_toStartOf="parent"
  app:layout_constraintTop_toTopOf="parent"
  app:layout_constraintVertical_bias="0.176" />
<EditText
  android:id="@+id/Password"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:ems="10"
  android:hint="@string/password"
  android:importantForAutofill="no"
```

```
android:inputType="textPassword"
  android:minHeight="50dp"
  android:textAlignment="center"
  android:textColor="#FF5722"
  app:layout_constraintBottom_toBottomOf="parent"
  app:layout_constraintEnd_toEndOf="parent"
  app:layout_constraintHorizontal_bias="0.442"
  app:layout constraintStart toStartOf="parent"
  app:layout_constraintTop_toBottomOf="@+id/Name"
  app:layout_constraintVertical_bias="0.144"
  tools:ignore="TextContrastCheck,TextContrastCheck" />
<Button
  android:id="@+id/Login"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:backgroundTint="#00BCD4"
  android:text="@string/login"
  android:textColor="#EBEBE7"
  app:layout_constraintBottom_toBottomOf="parent"
  app:layout_constraintEnd_toEndOf="parent"
  app:layout_constraintHorizontal_bias="0.461"
  app:layout_constraintStart_toStartOf="parent"
  app:layout_constraintTop_toBottomOf="@+id/Password"
```

```
app:layout_constraintVertical_bias="0.163"
  app:rippleColor="#E91E63"
  tools:ignore="TextContrastCheck" />
<TextView
  android:id="@+id/attempt"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:fontFamily="sans-serif-medium"
  android:text="@string/number_of_incorrect_attempts"
  android:textAlignment="center"
  android:textColor="#DD2C00"
  android:textSize="16sp"
  app:layout_constraintBottom_toBottomOf="parent"
  app:layout_constraintEnd_toEndOf="parent"
  app:layout_constraintHorizontal_bias="0.455"
  app:layout_constraintStart_toStartOf="parent"
  app:layout_constraintTop_toBottomOf="@+id/Login"
  app:layout_constraintVertical_bias="0.209"
  tools:ignore="TextContrastCheck,TextContrastCheck"/>
<TextView
```

android:id="@+id/message"

```
android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:fontFamily="serif"

android:textAlignment="center"

android:textColor="#BF360C"

android:textSize="20sp"

app:layout_constraintBottom_toBottomOf="parent"

app:layout_constraintEnd_toEndOf="parent"

app:layout_constraintStart_toStartOf="parent"

app:layout_constraintTop_toBottomOf="@+id/attempt" />
```

</androidx.constraintlayout.widget.ConstraintLayout>

• JAVA CODE:

package com.parthnpatel.login;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.graphics.Color;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
private EditText Name;
private EditText Password

```
private TextView message;
private TextView attempt;
private Button Login;
private int counter = 3;
@Override
protected void onCreate(Bundle savedInstanceState) {
  super.onCreate(savedInstanceState);
  setContentView(R.layout.activity_main);
  Name=findViewById(R.id.Name);
  Password=findViewById(R.id.Password);
  attempt=findViewById(R.id.attempt);
  Login=findViewById(R.id.Login);
  message=findViewById(R.id.message);
  attempt.setText("Attempts Remaining : "+counter);
  Login.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
       String enteredName=Name.getText().toString();
       String enteredPassword=Password.getText().toString();
       if(enteredName.isEmpty() || enteredPassword.isEmpty()){
```

```
Toast.makeText(getApplicationContext(), "Enter the necessary Details Please!!",
Toast.LENGTH_SHORT).show();
         }
         else{
           if(enteredName.equals("Parth") && enteredPassword.equals("admin1234")){
              message.setText("Credentials validated!!\n Logged in !!");
              message.setBackgroundColor(Color.GREEN);
            }
           else\{
              counter--;
              Toast.makeText(getApplicationContext(), "Enter the Correct Credentials!!",
Toast.LENGTH_SHORT).show();
              attempt.setText("Attempts Remaining : "+counter);
         }
         if(counter<=0){
           Login.setEnabled(false);
         }
```

```
message.set Text("You have no attempts left for login!! \\ \label{tempts} In Please Close the app and Try Again!!");
```

message.set Background Color (Color. RED);

}
};
}

OUTPUT:



Name

Password

LOGIN

Attempts Remaining: 3

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BASIC UI

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MESSAGE DISPLAYED WHEN ZERO ATTEMPTS LEFT

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EDIT TEXT AND PASSWORD DISPLAY