Practical 28

1. Write a Program to perform basic validation in login form. Also count number of unsuccessful attempts and allow maximum 5 attempts.

Xml Code :

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  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:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="20dp"
    android:text="LOG IN"
    android:textColor="@color/black"
    android:textSize="40dp"
    android:textStyle="bold" />
  <TextView
    android:id="@+id/tv1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="30dp"
    android:layout_marginTop="125dp"
    android:text="Username: "
    android:textColor="@color/black"
    android:textSize="25dp"
    android:textStyle="bold" />
  <EditText
    android:id="@+id/uname"
    android:layout_width="350dp"
    android:layout_height="wrap_content"
    android:layout_below="@+id/tv1"
    android:layout_alignLeft="@+id/tv1"
    android:layout_marginTop="20dp" />
  <TextView
    android:id="@+id/tv2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout below="@+id/uname"
```

android:layout_alignLeft="@+id/tv1"

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```
android:layout_marginTop="50dp"
    android:text="Password: "
    android:textColor="@color/black"
    android:textSize="25dp"
    android:textStyle="bold" />
  <EditText
    android:layout_width="350dp"
    android:layout_height="wrap_content"
    android:layout_below="@+id/tv2"
    android:layout_alignLeft="@+id/tv1"
    android:layout_marginTop="20dp"
    android:id="@+id/pass"/>
  <Button
    android:id="@+id/login"
    android:layout_width="200dp"
    android:layout_height="wrap_content"
    android:layout_alignParentBottom="true"
    android:layout_centerHorizontal="true"
    android:layout_marginBottom="100dp"
    android:backgroundTint="@color/black"
    android:padding="15dp"
    android:text="login"
    android:textSize="25dp"
    android:textStyle="bold"
    />
  <TextView
    android:layout_width="200dp"
    android:layout_height="wrap_content"
    android:textColor="#E74C3C"
    android:text="Attempts left: 5"
    android:layout_marginBottom="20dp"
    android:layout_marginLeft="20dp"
    android:layout_alignParentBottom="true"
    android:layout_alignParentLeft="true"
    android:fontFamily="sans-serif-black"
    android:id="@+id/tv4"
    android:textSize="20dp"/>
</RelativeLayout>
```

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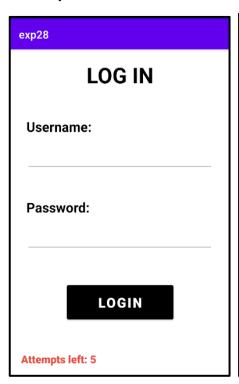
```
Java Code:
package com.example.exp28;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.Button;
import android.widget.EditText;
import android.widget.ImageView;
import android.widget.TextView;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
  EditText uname, pass;
  TextView tv4;
  Button login;
  Integer count=0;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    uname=findViewById(R.id.uname);
    pass=findViewById(R.id.pass);
    tv4=findViewById(R.id.tv4);
    login=findViewById(R.id.login);
    login.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View view) {
         LayoutInflater inflater = getLayoutInflater();
        View layout = inflater.inflate(R.layout.activity custom,(ViewGroup)
       findViewById(R.id.custom toast layout));
         TextView toastTextView = (TextView) layout.findViewById(R.id.tv1);
         ImageView toastImageView = (ImageView) layout.findViewById(R.id.custom img);
         if(count<5)
            if(uname.getText().toString().isEmpty()||pass.getText().toString().isEmpty())
              count++;
              toastTextView.setText("Login Failed!!!\nPlease enter all the details!!");
              toastImageView.setImageResource(R.drawable.img);
              Toast toast = new Toast(getApplicationContext());
              toast.setDuration(Toast.LENGTH SHORT);
              toast.setView(layout);
              toast.show();
            else if(pass.getText().length()<8){
              count++;
              toastTextView.setText("Login Failed!!!\nPassword must be minimum 8 charcters");
              toastImageView.setImageResource(R.drawable.img);
              Toast toast = new Toast(getApplicationContext());
              toast.setDuration(Toast.LENGTH_SHORT);
              toast.setView(layout);
              toast.show();
```

else if(uname.getText().toString().equals("Aditya")&&pass.getText().toString().equals("abcde@123"))

Name: Aditya Choudhary **MAD Experiments** Roll no: 19406 toastTextView.setText("Login Successfull!!"); toastImageView.setImageResource(R.drawable.img_1); Toast toast = new Toast(getApplicationContext()); toast.setDuration(Toast.LENGTH_SHORT); toast.setView(layout); toast.show(); } else{ count++; toastTextView.setText("Login Failed!!!\nInvalid Credentials!!!"); toastImageView.setImageResource(R.drawable.img); Toast toast = new Toast(getApplicationContext()); toast.setDuration(Toast.LENGTH_SHORT); toast.setView(layout);

Output:

});



toast.show();

toast.setView(layout);

toast.show();

else

tv4.setText("Attempts left: " + (5-count));

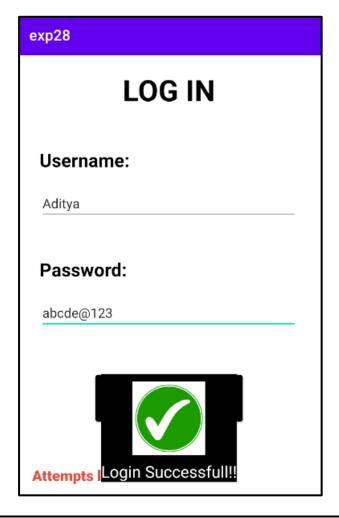
toastTextView.setText("5 attempts completed!!");
toastImageView.setImageResource(R.drawable.img_2);
Toast toast = new Toast(getApplicationContext());
toast.setDuration(Toast.LENGTH_SHORT);



exp28
LOG IN
Username:
aditya
Password:
Login Failed!!! Password must be minimum 8
Att charcters

Attempts left: 3





exp28
LOG IN
Username:
Password:
Attempt 5 attempts completed!!