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Practical No: 28

1. Write a Program to create the login form with necessary validations like length of username and password, empty text fields, count of unsuccessful login attempts. Display custom toast “ login successful/unsuccessful” .

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/textView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="USERNAME :"  
 android:textColor="#057A6F"  
 android:textSize="20sp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <EditText  
 android:id="@+id/username"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="32dp"  
 android:layout\_marginTop="8dp"  
 android:layout\_marginEnd="32dp"  
 android:ems="10"  
 android:hint="Enter Username"  
 android:inputType="textEmailAddress"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/textView" />  
  
 <TextView  
 android:id="@+id/textView2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="16dp"  
 android:text="PASSWORD :"  
 android:textColor="#057A6F"  
 android:textSize="20sp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/username" />  
  
 <EditText  
 android:id="@+id/password"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="32dp"  
 android:layout\_marginTop="8dp"  
 android:layout\_marginEnd="32dp"  
 android:ems="10"  
 android:hint="Enter Password"  
 android:inputType="textPassword"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/textView2" />  
  
 <Button  
 android:id="@+id/login"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="32dp"  
 android:layout\_marginTop="16dp"  
 android:layout\_marginEnd="32dp"  
 android:backgroundTint="#E9FFFD"  
 android:text="Login"  
 android:textColor="#144E49"  
 android:textSize="20sp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/password" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

MainActivity.java

package com.example.mad\_playground;  
  
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;  
  
import java.util.Objects;  
  
public class MainActivity extends AppCompatActivity {  
 EditText email,password;  
 Button login;  
 Integer count=0;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 email=findViewById(R.id.*username*);  
 password=findViewById(R.id.*password*);  
 login=findViewById(R.id.*login*);  
  
 login.setOnClickListener(new View.OnClickListener(){  
 @Override  
 public void onClick(View view) {  
 if(count<5) {  
 if (email.getText().toString().isEmpty() || password.getText().toString().isEmpty()) {  
 Toast.*makeText*(MainActivity.this, "Enter Valid Data! ", Toast.*LENGTH\_SHORT*).show();  
 } else if (email.getText().toString().equals("qarq90@gmail.com") && password.getText().toString().equals("iLoveGothGymMommies")) {  
 Toast.*makeText*(MainActivity.this, "Login Successful! ", Toast.*LENGTH\_SHORT*).show();  
 } else {  
 count++;  
 Toast.*makeText*(MainActivity.this, "Unsuccessful Attempt", Toast.*LENGTH\_SHORT*).show();  
 }  
 }else  
 Toast.*makeText*(MainActivity.this, "You have made 5 Failed Attempts", Toast.*LENGTH\_SHORT*).show();  
 }  
 });  
 }  
}

OUTPUT:

 