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Practical Related Questions

1. **Explain the use of equals() function.**
   The **equals()** method compares two strings, and returns true if the strings are **equal**, and false if not.

2. **List the important functions which are related to GUI component "Button".**

Attribute	Description
android:id	It is used to uniquely identify the control
android:gravity	It is used to specify how to align the text like left, right, center, top, etc.
android:text	It is used to set the text.
android:textColor	It is used to change the color of text.
android:textSize	It is used to specify the size of the text.
android:textStyle	It is used to change the style (bold, italic, bolditalic) of text.
android:background	It is used to set the background color for button control.
android:padding	It is used to set the padding from left, right, top and bottom.
android:drawableBottom	It's drawable to be drawn to the below of text.
android:drawableRight	It's drawable to be drawn to the right of text.
android:drawableLeft	It's drawable to be drawn to the left of the text.

3. **State the uses of Toast message.**
   Toasts display brief, temporary notifications. They are meant to be noticed without disrupting a user's experience or requiring an action to be taken.

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Exercise

MainActivity.java

```java
package com.example.logineg;

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 unm, pw;
    Button b;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        b = (Button) findViewById(R.id.button);
        unm = (EditText) findViewById(R.id.editTextTextPersonName);
        pw = (EditText) findViewById(R.id.editTextTextPassword);

        b.setOnClickListener(new View.OnClickListener(){
            @Override
            public void onClick(View view){
                String user = (String) unm.getText().toString();
                String pass = (String) pw.getText().toString();
                Toast.makeText(MainActivity.this, user + " " + pass,
Toast.LENGTH_LONG).show();

                if(user.equals("abcd") && pass.equals("abc123")){
                    Toast.makeText(MainActivity.this, "Login Successful",
Toast.LENGTH_LONG).show();
                }
                else{
                    Toast.makeText(MainActivity.this, "Username and password does not
match", Toast.LENGTH_LONG).show();
                }
            }
        });
    }
}
```

activity_main.xml

```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"
```

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```xml
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <Button
        android:id="@+id/button"
        android:layout_width="273dp"
        android:layout_height="56dp"
        android:layout_marginBottom="204dp"
        android:text="Log In"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent" />

    <EditText
        android:id="@+id/editTextTextPersonName"
        android:layout_width="266dp"
        android:layout_height="40dp"
        android:ems="10"
        android:hint="Username/Email"
        android:inputType="textPersonName"
        app:layout_constraintBottom_toTopOf="@+id/editTextTextPassword"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.475"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.685" />

    <EditText
        android:id="@+id/editTextTextPassword"
        android:layout_width="273dp"
        android:layout_height="46dp"
        android:layout_marginBottom="96dp"
        android:ems="10"
        android:hint="Password"
        android:inputType="textPassword"
        app:layout_constraintBottom_toTopOf="@+id/button"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```