Create an android app that will check whether given username and password matches with the predefined user name and password.

- **activity_main.xml**

  ```xml
  <?xml version="1.0" encoding="utf-8"?>
  <?xml version="1.0" encoding="utf-8"?>
  <LinearLayout 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"
      android:orientation="vertical"
      android:layout_margin="15dp"
      tools:context=".MainActivity">


      <TextView
          android:id="@+id/tvProfileDetails"
          android:layout_width="match_parent"
          android:layout_height="35dp"
          android:text=" " />

      <TextView
          android:id="@+id/tvProfileName"
          android:layout_width="match_parent"
          android:layout_height="35dp"
          android:text="Name" />

      <TextView
          android:id="@+id/tvProfileEmail"
          android:layout_width="match_parent"
          android:layout_height="40dp"
          android:text="Email" />

      <TextView
          android:id="@+id/tvProfilePhone"
          android:layout_width="match_parent"
          android:layout_height="33dp"
          android:text="Phone" />

      <TextView
          android:id="@+id/tvProfileAddress"
  ```

```xml
        android:layout_width="match_parent"
        android:layout_height="32dp"
        android:text="Address" />


    <Button
        android:id="@+id/btnLogout"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Logout" />
</LinearLayout>
```

- ## MainActivity.java

```java
package com.example.userform;

import androidx.appcompat.app.AppCompatActivity;

import android.annotation.SuppressLint;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {
    TextView tvProfileDetails, tvProfileName, tvProfileEmail, tvProfilePhone, tvProfileAddress;
    Button btnLogout;

    @SuppressLint("MissingInflatedId")
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        tvProfileDetails = findViewById(R.id.tvProfileDetails);
        tvProfileName = findViewById(R.id.tvProfileName);
        tvProfileEmail = findViewById(R.id.tvProfileEmail);
        tvProfilePhone = findViewById(R.id.tvProfilePhone);
        tvProfileAddress = findViewById(R.id.tvProfileAddress);
        btnLogout = findViewById(R.id.btnLogout);

        com.example.registrationapp.User user = REGISTRATION.registeredUser;
        if (user != null) {
```

```java
                tvProfileDetails.setText("Welcome to " +user.getName() + "r village...");
                tvProfileName.setText("Name: " + user.getName());
                tvProfileEmail.setText("Email: " + user.getEmail());
                tvProfilePhone.setText("Phone: " + user.getPhone());
                tvProfileAddress.setText("Address: " + user.getAddress());
            }


            btnLogout.setOnClickListener(new View.OnClickListener() {
                @Override
                public void onClick(View view) {
                    Intent intent = new Intent(MainActivity.this, LOGIN.class);
                    startActivity(intent);
                    finish(); // close profile activity
                }
            });
        }
    }
```

- **activity_login.xml**

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:layout_margin="15dp"
    tools:context=".LOGIN">

    <EditText
        android:id="@+id/etLoginEmail"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Email" />

    <EditText
        android:id="@+id/etLoginPassword"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Password"
        android:inputType="textPassword" />
```

```xml
        <Button
            android:id="@+id/btnLogin"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="Login" />

        <Button
            android:id="@+id/btnSignUp"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="Sign Up" />
    </LinearLayout>
```

- **LOGIN.java**

```java
package com.example.userform;

import androidx.appcompat.app.AppCompatActivity;

import android.annotation.SuppressLint;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

public class LOGIN extends AppCompatActivity {
    EditText etLoginEmail, etLoginPassword;
    Button btnLogin, btnSignUp;

    @SuppressLint("MissingInflatedId")
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_login);

        etLoginEmail = findViewById(R.id.etLoginEmail);
        etLoginPassword = findViewById(R.id.etLoginPassword);
        btnLogin = findViewById(R.id.btnLogin);
        btnSignUp = findViewById(R.id.btnSignUp);

        btnLogin.setOnClickListener(new View.OnClickListener() {
```

```java
        @Override
        public void onClick(View view) {
            String email = etLoginEmail.getText().toString();
            String password = etLoginPassword.getText().toString();

            if (REGISTRATION.registeredUser != null) {
                if (email.equals(REGISTRATION.registeredUser.getEmail()) &&
        password.equals(REGISTRATION.registeredUser.getPassword())) {
                    Intent intent = new Intent(LOGIN.this, MainActivity.class);
                    startActivity(intent);
                } else {
                    Toast.makeText(LOGIN.this, "Invalid credentials", Toast.LENGTH_SHORT).show();
                }
            } else {
                Toast.makeText(LOGIN.this, "No registered user", Toast.LENGTH_SHORT).show();
            }
        }
    });

    btnSignUp.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            Intent intent = new Intent(LOGIN.this, REGISTRATION.class);
            startActivity(intent);
        }
    });
    }
}
```

- **activity_registration.xml**
```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:orientation="vertical"
    android:layout_margin="15dp"

    android:layout_height="match_parent"
    tools:context=".REGISTRATION">
```

```xml
    <EditText
        android:id="@+id/etName"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Name" />

    <EditText
        android:id="@+id/etEmail"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Email"
        android:inputType="textEmailAddress" />

    <EditText
        android:id="@+id/etPassword"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Password"
        android:inputType="textPassword" />

    <EditText
        android:id="@+id/etPhone"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Phone"
        android:inputType="phone" />

    <EditText
        android:id="@+id/etAddress"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Address" />

    <Button
        android:id="@+id/btnRegister"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Register" />

    <Button
        android:id="@+id/btnToLogin"
```

```
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:text="Go to Login" />
        </LinearLayout>
```

- **REGISTRATION.java**

```java
package com.example.userform;

import androidx.annotation.RequiresApi;
import androidx.appcompat.app.AppCompatActivity;

import android.annotation.SuppressLint;
import android.content.Intent;
import android.os.Build;
import android.os.Bundle;
import android.os.Handler;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

import com.example.registrationapp.User;

public class REGISTRATION extends AppCompatActivity {
    EditText etName, etEmail, etPassword, etPhone, etAddress;
    Button btnRegister, btnToLogin;
    static com.example.registrationapp.User registeredUser;

    @SuppressLint("WrongViewCast")
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_registration);

        etName = findViewById(R.id.etName);
        etEmail = findViewById(R.id.etEmail);
        etPassword = findViewById(R.id.etPassword);
        etPhone = findViewById(R.id.etPhone);
        etAddress = findViewById(R.id.etAddress);
        btnRegister = findViewById(R.id.btnRegister);
        btnToLogin = findViewById(R.id.btnToLogin);
```
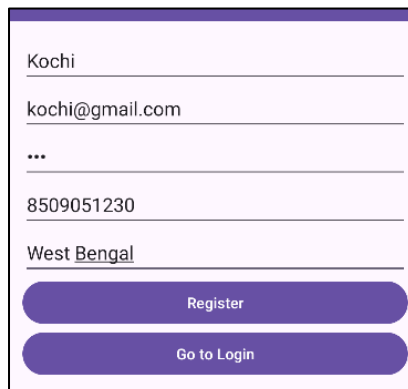
```
        btnRegister.setOnClickListener(new View.OnClickListener() {
          @Override
          public void onClick(View view) {
            String name = etName.getText().toString();
            String email = etEmail.getText().toString();
            String password = etPassword.getText().toString();
            String phone = etPhone.getText().toString();
            String address = etAddress.getText().toString();

            if (!name.isEmpty() && !email.isEmpty() && !password.isEmpty()) {
              registeredUser = new User(name, email, password, phone, address);
              Toast.makeText(REGISTRATION.this, "Registration Successful!",
      Toast.LENGTH_SHORT).show();
            } else {
              Toast.makeText(REGISTRATION.this, "Please fill all fields", Toast.LENGTH_SHORT).show();
            }
          }
        });

        btnToLogin.setOnClickListener(new View.OnClickListener() {
          @Override
          public void onClick(View view) {
            startActivity(new Intent(REGISTRATION.this, LOGIN.class));
          }
        });

      }
    }
```

- **Output:** -