# **Android Lab**

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## Code:

```
package com.example.endsemlabapp;
import androidx.appcompat.app.AppCompatActivity;
  SharedPreferences sharedPreferences;
  protected void onCreate(Bundle savedInstanceState) {
      super.onCreate(savedInstanceState);
      setContentView(R.layout.activity main);
```

```
String userPassword = password.getText().toString();
               if (!userEmail.isEmpty() && !userPassword.isEmpty()) {
                   SharedPreferences.Editor editor = sharedPreferences.edit();
                   editor.putString("password", userPassword);
Toast.LENGTH SHORT).show();
           public void onClick(View view) {
```

#### 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">

    <!-- Label for Name -->
    <TextView
        android:layout_width="wrap_content"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Name:"
        android:textSize="16sp"</pre>
```

```
android:layout marginStart="24dp"
<TextView
   android:textSize="16sp"
   android:layout marginStart="24dp" />
   android:layout marginStart="24dp"
```

```
android:layout marginStart="24dp" />
android:inputType="textPassword"
app:layout constraintStart toStartOf="parent"
```

```
android:layout_height="wrap_content"
android:text="Register"
app:layout_constraintTop_toBottomOf="@id/password"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintEnd_toEndOf="parent"
android:layout_marginTop="24dp"
android:layout_marginStart="24dp"
android:layout_marginEnd="24dp" />

<!-- Login Button -->
<Button
android:id="@+id/btnLogin"
android:layout_width="0dp"
android:layout_meight="wrap_content"
android:layout_marginStart="24dp"
android:layout_marginFop="8dp"
android:layout_marginFop="8dp"
android:layout_marginEnd="24dp"
android:text="Login"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@id/btnRegister" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

#### Login\_activity.java

```
package com.example.endsemlabapp;
import android.content.Intent;
import android.content.SharedPreferences;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

public class LoginActivity extends AppCompatActivity {

    EditText email, password;
    Button loginButton, goToRegisterButton;
    SharedPreferences sharedPreferences;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_login);
}
```

```
sharedPreferences = getSharedPreferences("MyPrefs", MODE PRIVATE);
userPassword.equals(registeredPassword)) {
WelcomeActivity.class);
                   intent.putExtra("email", userEmail);
Toast.LENGTH SHORT).show();
      goToRegisterButton.setOnClickListener(new View.OnClickListener() {
MainActivity.class);
               startActivity(intent);
```

```
<androidx.constraintlayout.widget.ConstraintLayout</pre>
xmlns:android="http://schemas.android.com/apk/res/android"
       app:layout constraintStart toStartOf="parent"
   <EditText
       app:layout constraintStart toStartOf="parent"
```

```
app:layout constraintStart toStartOf="parent"
      android:inputType="textPassword"
      app:layout constraintStart toStartOf="parent"
      app:layout constraintStart toStartOf="parent"
</androidx.constraintlayout.widget.ConstraintLayout>
```

welcome activity.java

```
import android.content.SharedPreferences;
import android.os.Bundle;
import android.widget.TextView;

import androidx.appcompat.app.AppCompatActivity;

public class WelcomeActivity extends AppCompatActivity {

   TextView welcomeText;
   SharedPreferences sharedPreferences;

   @Override
   protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_welcome);

        welcomeText = findViewById(R.id.welcome_text);
        String email = getIntent().getStringExtra("email");

        welcomeText.setText("Welcome_back " + email);
    }
}
```

### Activity\_welcome.java

```
<?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=".WelcomeActivity">

    <!-- Welcome Message -->
    <TextView
        android:id="@+id/welcome_text"
        android:layout_width="wrap_content"
        android:layout_beight="wrap_content"
        android:text="Welcome back"
        android:text="Welcome back"
        android:textStyle="bold"
        android:textStyle="bold"
        android:textColor="@android:color/black"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
</pre>
```

```
android:layout_marginBottom="16dp" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

#### SplashActivity.java

```
protected void onCreate(Bundle savedInstanceState) {
       super.onCreate(savedInstanceState);
      proceedButton.setOnClickListener(new View.OnClickListener() {
MainActivity.class);
```

### Activity\_splash.java

```
<?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"</pre>
```

```
<ImageView</pre>
<TextView
    app:layout constraintStart toStartOf="parent"
```

```
app:layout_constraintTop_toBottomOf="@id/roll_number_text"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    android:layout_marginTop="40dp" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

#### AndroidManifest.xml

```
android:allowBackup="true"
     tools:targetApi="31">
         <intent-filter>
              <category android:name="android.intent.category.LAUNCHER" />
         </intent-filter>
     <activity android:name=".LoginActivity" android:exported="true"/>
     <activity android:name=".WelcomeActivity" android:exported="true"/>
/manifest>
```







