



Android Class

#Android Notes

Shared Preferences



Shared Preferences

- Android provides many ways of storing data of an application. One of this way is called **Shared Preferences**.
- Shared Preferences allow you to save and retrieve data in the form of **key & value pair**.



Cont...

- In order to use shared preferences, you have to call a method `getSharedPreferences()` that returns a `SharedPreferences` instance pointing to the file that contains the values of preferences.

- Syntax :-

```
SharedPreferences sharedPreferences =  
getSharedPreferences(MyPREFERENCES,MODE_PRIVATE) ;
```

- Note :-

- The first parameter is the KEY and the second parameter is the MODE.
- By setting PRIVATE mode, the file can only be accessed using calling application.



Cont...

- You can save data in the sharedPreferences by using **SharedPreferences.Editor class**.
- You will call the **edit() method** of SharedPreferences instance and will receive it in an editor object.
- **Syntax :-**

```
SharedPreferences.Editor editor = sharedPreferences.edit();  
editor.putString("key", "value");  
editor.commit();
```





MyDemo

Enter Email id

Enter password

LOGIN SIGN UP



MyDemo

Enter name

Enter Email id

Enter Password

Enter Mobile No

SIGN UP



MyDemo

Akash Padhiyar

akash@gmail.com

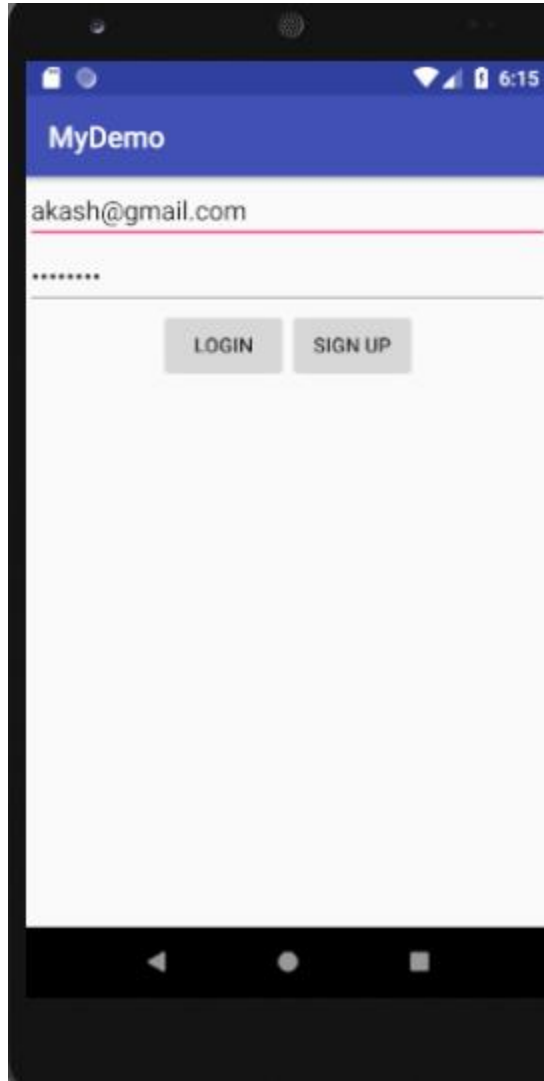
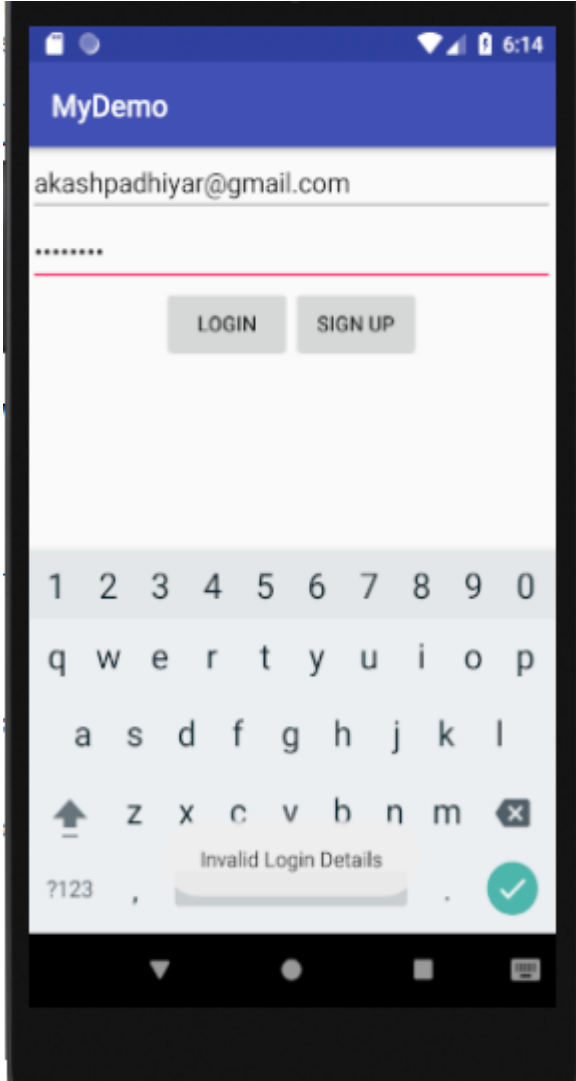
.....

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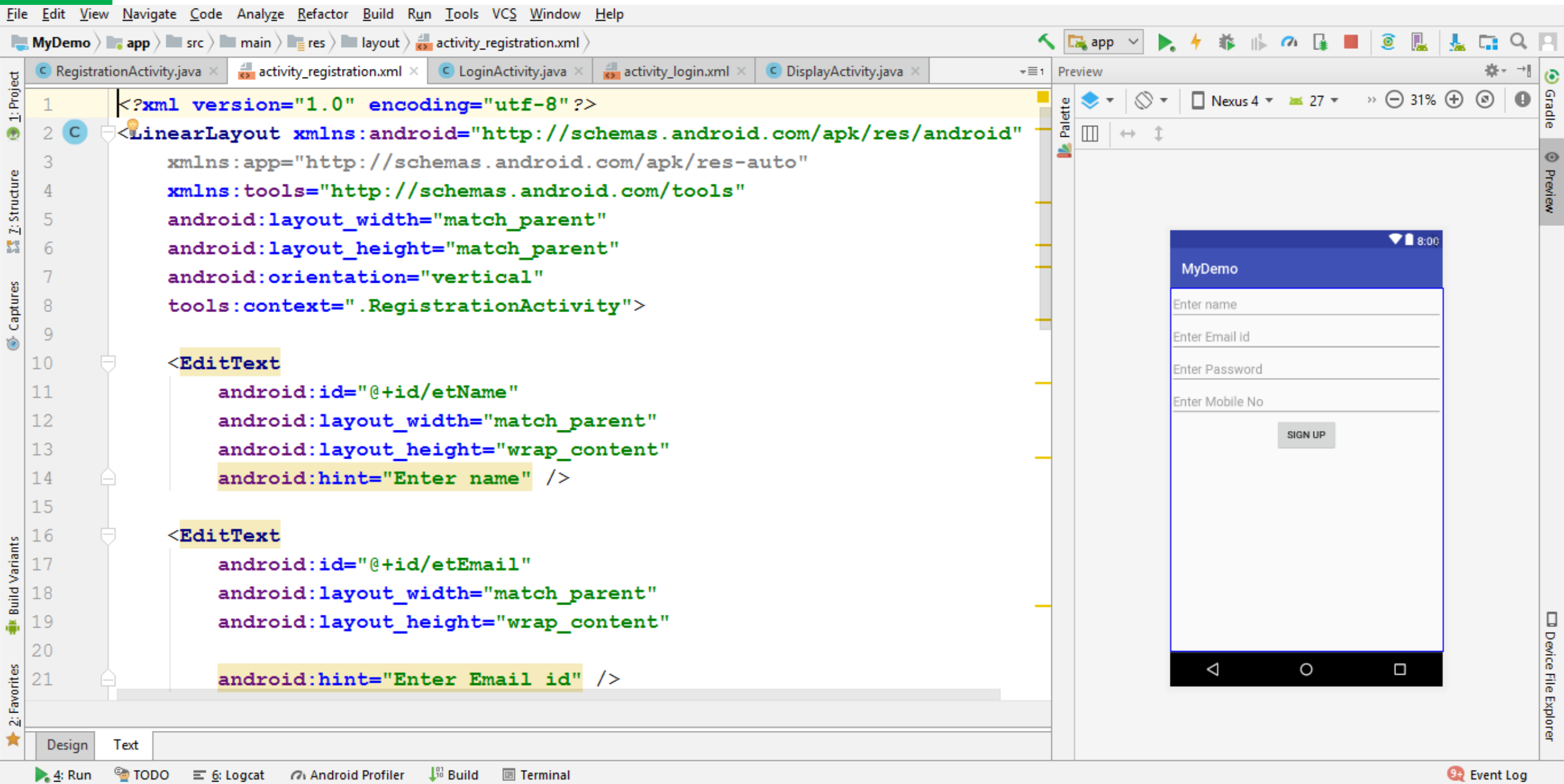
SIGN UP



Cont...



Screenshot Of activity_registration.xml



Cont...

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

MyDemo > app > src > main > res > layout > activity_registration.xml

RegistrationActivity.java x activity_registration.xml x LoginActivity.java x activity_login.xml x DisplayActivity.java x

```
22  
23 <EditText  
24     android:id="@+id/etpassword"  
25     android:layout_width="match_parent"  
26     android:layout_height="wrap_content"  
27     android:hint="Enter Password"  
28     android:inputType="textPassword" />  
29  
30 <EditText  
31     android:id="@+id/etMobile"  
32     android:layout_width="match_parent"  
33     android:layout_height="wrap_content"  
34     android:hint="Enter Mobile No"  
35     android:inputType="number" />  
36  
37 <LinearLayout  
38     android:layout_width="match_parent"  
39     android:layout_height="wrap_content"  
40     android:gravity="center"  
41     android:orientation="horizontal">  
42  
43 <Button
```

Preview

Nexus 4 27 31%

MyDemo

Enter name

Enter Email id

Enter Password

Enter Mobile No

SIGN UP

Design Text

Run TODO Logcat Android Profiler Build Terminal

Event Log

Cont...

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

MyDemo > app > src > main > res > layout > activity_registration.xml

RegistrationActivity.java x activity_registration.xml x LoginActivity.java x activity_login.xml x DisplayActivity.java x

```
35 android:inputType="number" />
36
37 <LinearLayout
38     android:layout_width="match_parent"
39     android:layout_height="wrap_content"
40     android:gravity="center"
41     android:orientation="horizontal">
42
43     <Button
44         android:id="@+id/btnRegister"
45         android:layout_width="wrap_content"
46         android:layout_height="wrap_content"
47         android:layout_gravity="center"
48         android:text="SIGN UP" />
49
50 </LinearLayout>
51 </LinearLayout>
```

Preview

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MyDemo

Enter name

Enter Email id

Enter Password

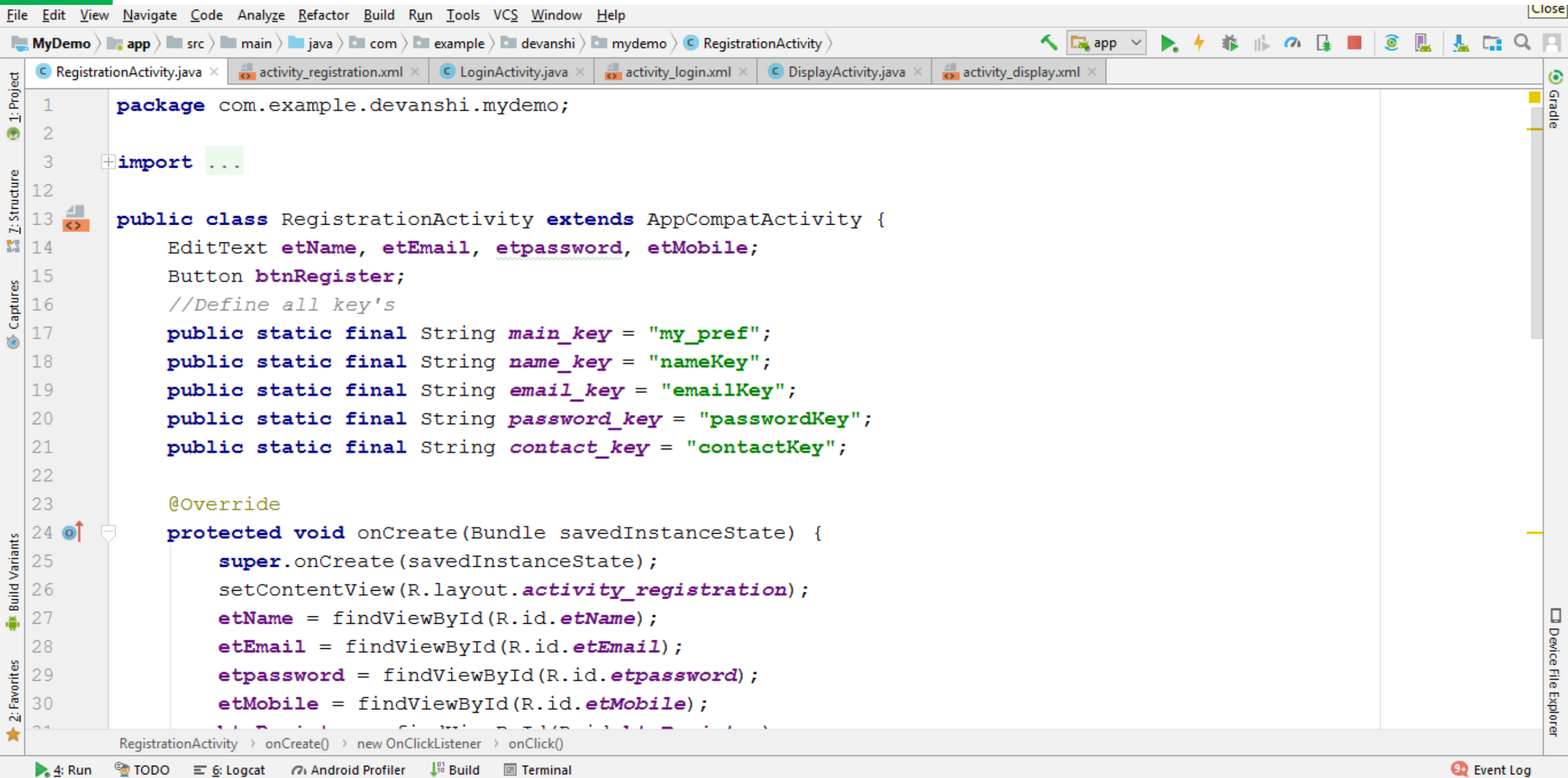
Enter Mobile No

SIGN UP

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Event Log

Screenshot Of RegistrationActivity.java



The screenshot displays the source code of the `RegistrationActivity.java` file in an IDE. The code is as follows:

```
1 package com.example.devanshi.mydemo;
2
3 import ...
4
12
13 public class RegistrationActivity extends AppCompatActivity {
14     EditText etName, etEmail, etpassword, etMobile;
15     Button btnRegister;
16     //Define all key's
17     public static final String main_key = "my_pref";
18     public static final String name_key = "nameKey";
19     public static final String email_key = "emailKey";
20     public static final String password_key = "passwordKey";
21     public static final String contact_key = "contactKey";
22
23     @Override
24     protected void onCreate(Bundle savedInstanceState) {
25         super.onCreate(savedInstanceState);
26         setContentView(R.layout.activity_registration);
27         etName = findViewById(R.id.etName);
28         etEmail = findViewById(R.id.etEmail);
29         etpassword = findViewById(R.id.etpassword);
30         etMobile = findViewById(R.id.etMobile);
31     }
32 }
```

The IDE interface includes a menu bar (File, Edit, View, Navigate, Code, Analyze, Refactor, Build, Run, Tools, VCS, Window, Help), a toolbar with icons for navigation and execution, and a sidebar with panels for Project, Structure, Captures, Build Variants, and Favorites. The bottom status bar shows the current location in the code (`RegistrationActivity > onCreate() > new OnClickListener > onClick()`) and various tool icons.

Cont...

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

MyDemo > app > src > main > java > com > example > devanshi > mydemo > RegistrationActivity

RegistrationActivity.java x activity_registration.xml x LoginActivity.java x activity_login.xml x DisplayActivity.java x activity_display.xml x

```
30 etMobile = findViewById(R.id.etMobile);
31 btnRegister = findViewById(R.id.btnRegister);
32 btnRegister.setOnClickListener(new View.OnClickListener() {
33     @Override
34     public void onClick(View v) {
35         //Create object of SharedPreferences
36         SharedPreferences preferences = getSharedPreferences(main_key, MODE_PRIVATE);
37         String userName = etName.getText().toString();
38         String userPassword = etpassword.getText().toString();
39         String userEmail = etEmail.getText().toString();
40         String userMobile = etMobile.getText().toString();
41         //Create object of Editor class
42         SharedPreferences.Editor editor = preferences.edit();
43         //Use putString() method of Editor class to store data in SharedPreferences
44         //putString() method has two parameters "key","value"
45         editor.putString(name_key, userName);
46         editor.putString(email_key, userEmail);
47         editor.putString(password_key, userPassword);
48         editor.putString(contact_key, userMobile);
49
50         editor.commit();
51
```

RegistrationActivity > onCreate() > new OnClickListener > onClick()

Run TODO Logcat Android Profiler Build Terminal

9+ Event Log

Cont...

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

MyDemo > app > src > main > java > com > example > devanshi > mydemo > RegistrationActivity

RegistrationActivity.java × activity_registration.xml × LoginActivity.java × activity_login.xml × DisplayActivity.java × activity_display.xml ×

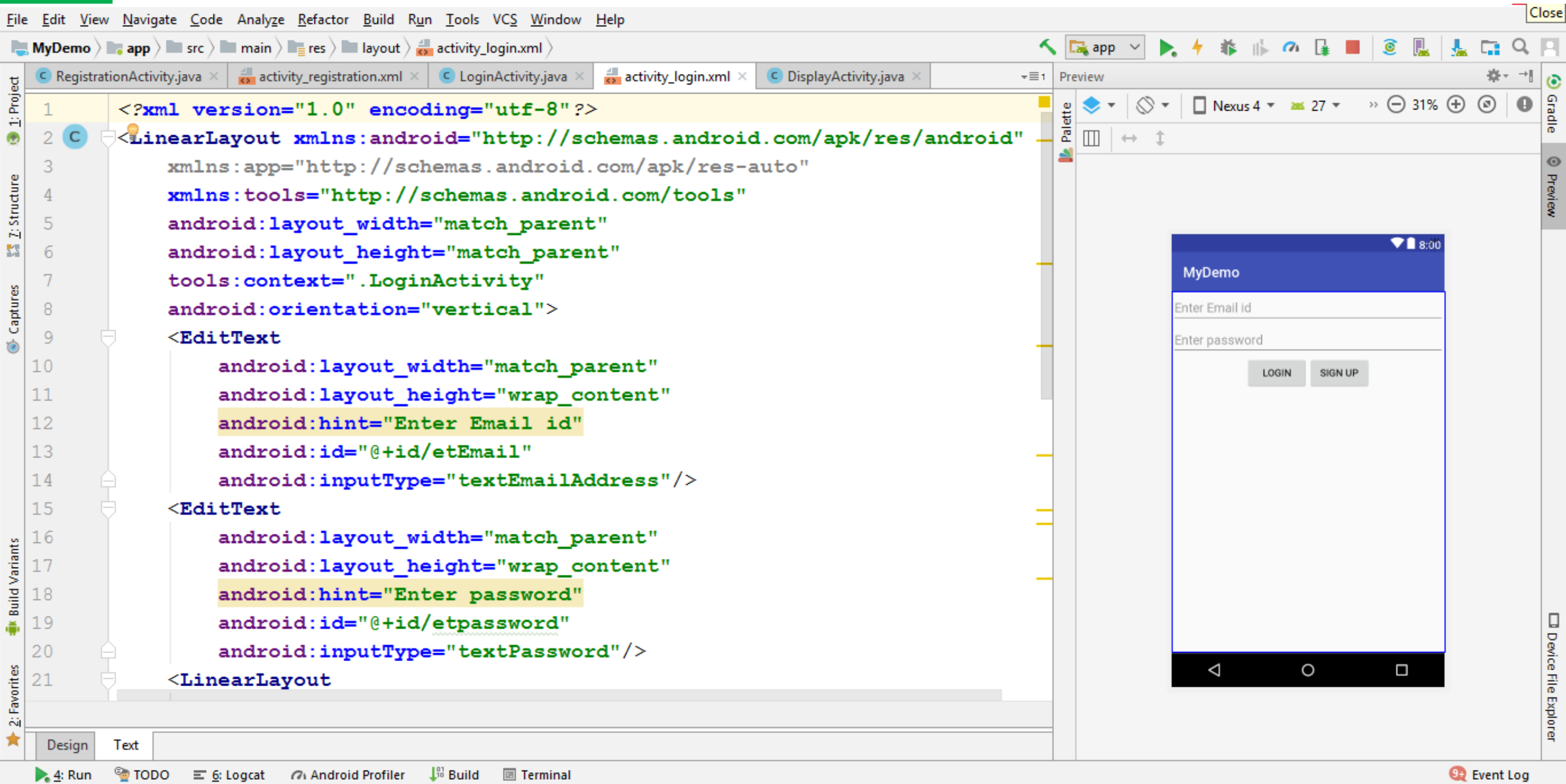
```
42  SharedPreferences.Editor editor = preferences.edit();
43  //Use putString() method of Editor class to store data in SharedPreferences
44  //putString() method has two parameters "key","value"
45  editor.putString(name_key, userName);
46  editor.putString(email_key, userEmail);
47  editor.putString(password_key, userPassword);
48  editor.putString(contact_key, userMobile);
49
50  editor.commit();
51
52  Intent intent = new Intent(packageContext: RegistrationActivity.this, LoginActivity.class);
53  startActivity(intent);
54
55  }
56  });
57  }
58
59  }
60
```

RegistrationActivity

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Event Log

Screenshot Of activity_login.xml



Cont...

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

MyDemo > app > src > main > res > layout > activity_login.xml

RegistrationActivity.java x activity_registration.xml x LoginActivity.java x activity_login.xml x DisplayActivity.java x

```
19         android:id="@+id/etpassword"
20         android:inputType="textPassword"/>
21     <LinearLayout
22         android:layout_width="match_parent"
23         android:layout_height="wrap_content"
24         android:orientation="horizontal"
25         android:gravity="center">
26     <Button
27         android:layout_width="wrap_content"
28         android:layout_height="wrap_content"
29         android:id="@+id/btnLogin"
30         android:text="login"/>
31     <Button
32         android:layout_width="wrap_content"
33         android:layout_height="wrap_content"
34         android:id="@+id/btnSignup"
35         android:text="SIGN UP"
36         android:layout_gravity="center"/>
37 </LinearLayout>
38 </LinearLayout>
```

app Preview

Nexus 4 27 AppTheme Default (en-us)

Preview

Preview

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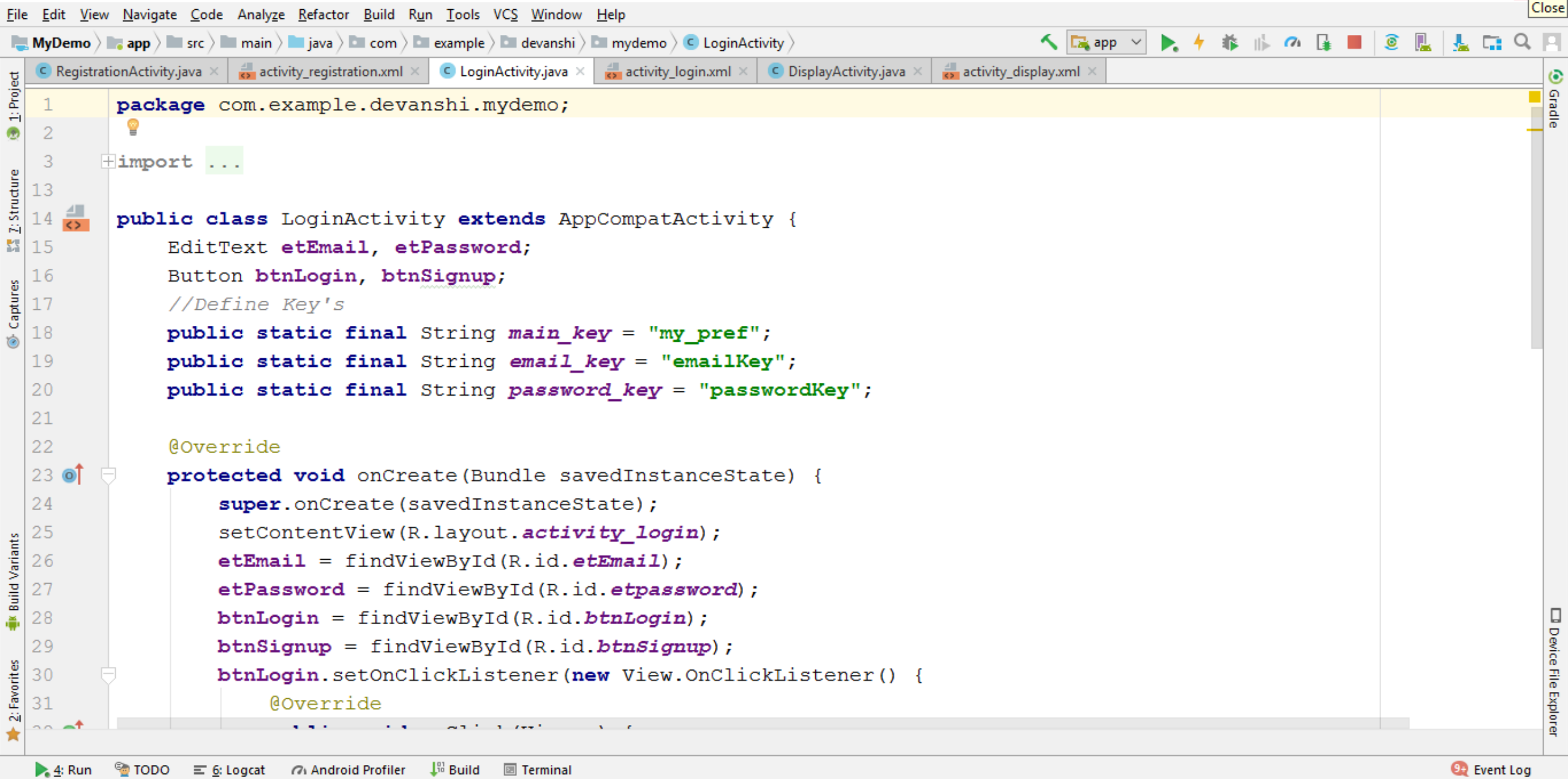
Preview

Preview

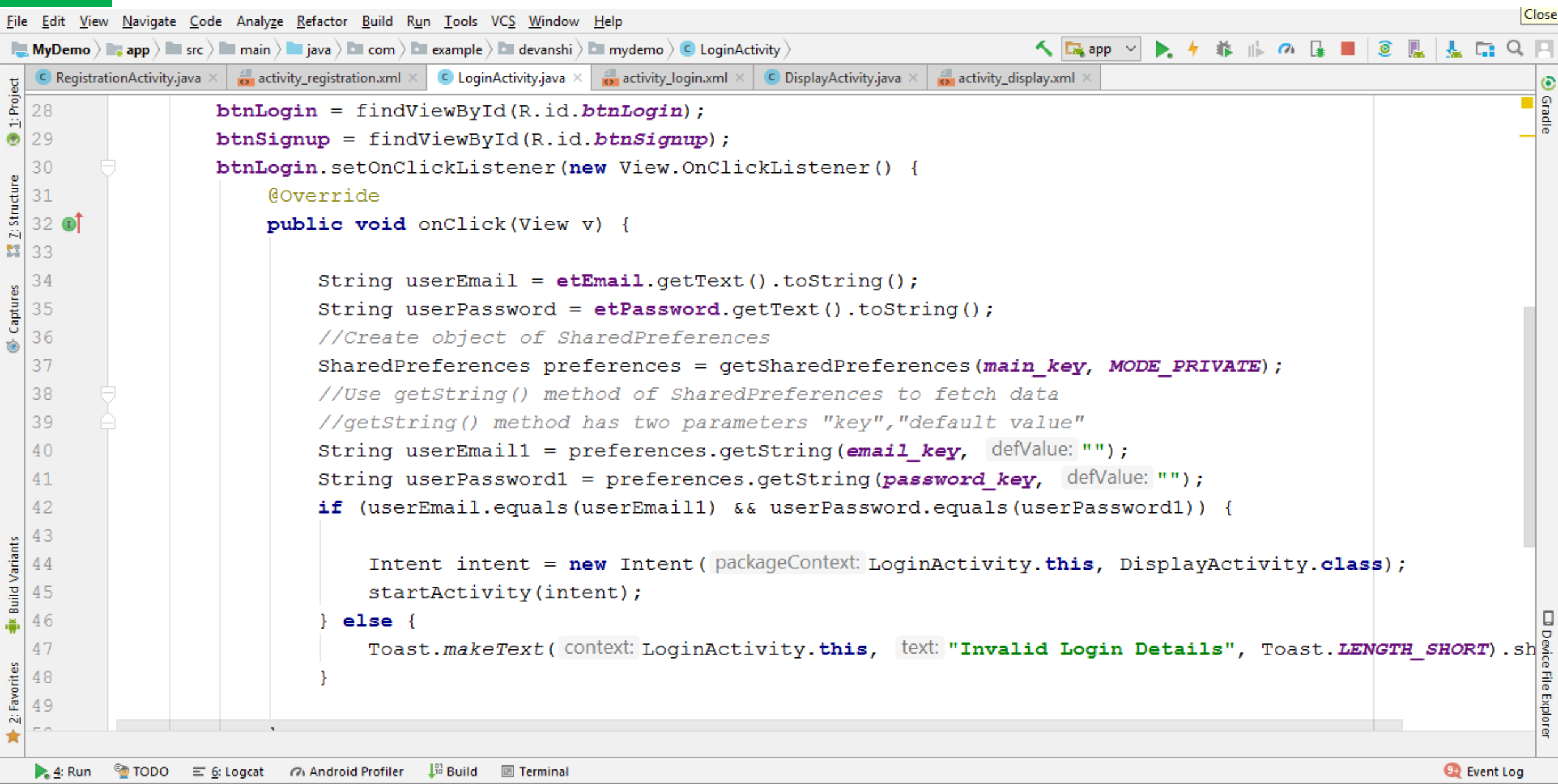
Design Text

Run TODO Logcat Android Profiler Build Terminal Event Log

Screenshot Of LoginActivity.java



Cont...



File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

MyDemo > app > src > main > java > com > example > devanshi > mydemo > LoginActivity

RegistrationActivity.java x activity_registration.xml x LoginActivity.java x activity_login.xml x DisplayActivity.java x activity_display.xml x

```
28 btnLogin = findViewById(R.id.btnLogin);
29 btnSignup = findViewById(R.id.btnSignup);
30 btnLogin.setOnClickListener(new View.OnClickListener() {
31     @Override
32     public void onClick(View v) {
33
34         String userEmail = etEmail.getText().toString();
35         String userPassword = etPassword.getText().toString();
36         //Create object of SharedPreferences
37         SharedPreferences preferences = getSharedPreferences(main_key, MODE_PRIVATE);
38         //Use getString() method of SharedPreferences to fetch data
39         //getString() method has two parameters "key","default value"
40         String userEmail1 = preferences.getString(email_key, defValue: "");
41         String userPassword1 = preferences.getString(password_key, defValue: "");
42         if (userEmail.equals(userEmail1) && userPassword.equals(userPassword1)) {
43
44             Intent intent = new Intent(packageContext: LoginActivity.this, DisplayActivity.class);
45             startActivity(intent);
46         } else {
47             Toast.makeText(context: LoginActivity.this, text: "Invalid Login Details", Toast.LENGTH_SHORT).show();
48         }
49     }
50 }
```

1: Project
2: Structure
3: Captures
4: Build Variants
5: Favorites
6: Run
7: TODO
8: Logcat
9: Android Profiler
10: Build
11: Terminal
12: Event Log

Gradle
Device File Explorer

Cont...

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

MyDemo > app > src > main > java > com > example > devanshi > mydemo > LoginActivity

RegistrationActivity.java activity_registration.xml LoginActivity.java activity_login.xml DisplayActivity.java activity_display.xml

```
40 String userEmail1 = preferences.getString(email_key, defValue: "");
41 String userPassword1 = preferences.getString(password_key, defValue: "");
42 if (userEmail.equals(userEmail1) && userPassword.equals(userPassword1)) {
43
44     Intent intent = new Intent(packageContext: LoginActivity.this, DisplayActivity.class);
45     startActivity(intent);
46 } else {
47     Toast.makeText(context: LoginActivity.this, text: "Invalid Login Details", Toast.LENGTH_SHORT).show();
48 }
49
50 }
51 });
52 btnSignup.setOnClickListener(new View.OnClickListener() {
53     @Override
54     public void onClick(View v) {
55         Intent intent = new Intent(packageContext: LoginActivity.this, RegistrationActivity.class);
56         startActivity(intent);
57     }
58 });
59 }
60 }
61
```

Run TODO Logcat Android Profiler Build Terminal Event Log

Output



MyDemo

Enter Email id

Enter password

LOGIN SIGN UP



MyDemo


Enter name

Enter Email id

Enter Password

Enter Mobile No

SIGN UP



MyDemo

Akash Padhiyar

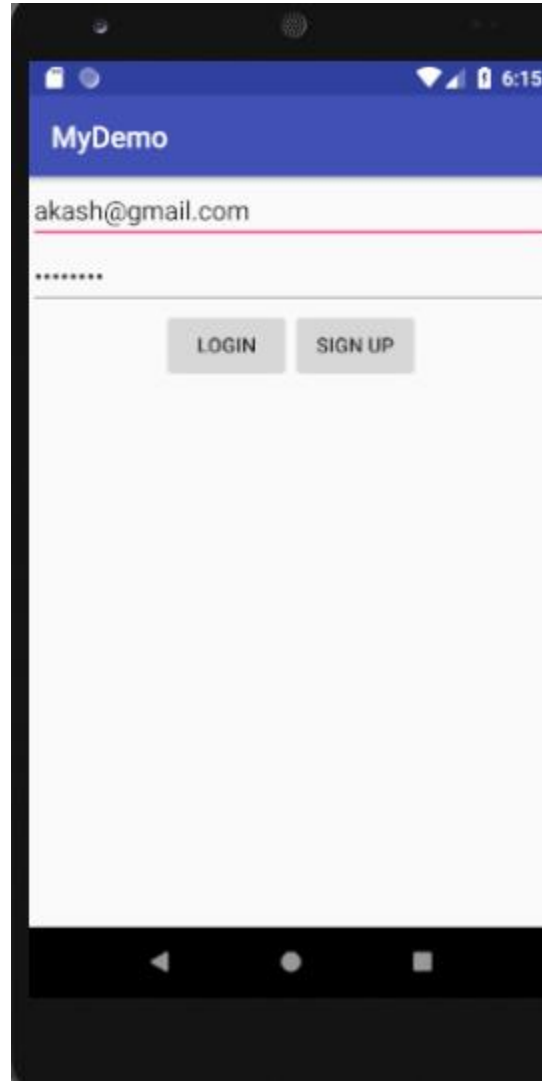
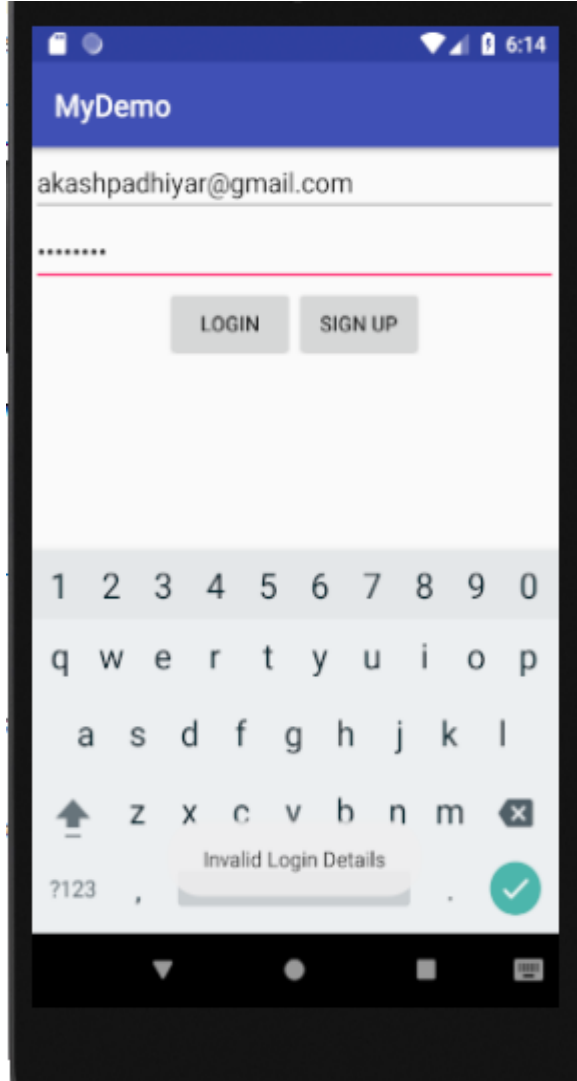
akash@gmail.com

9978621654

SIGN UP



Cont...



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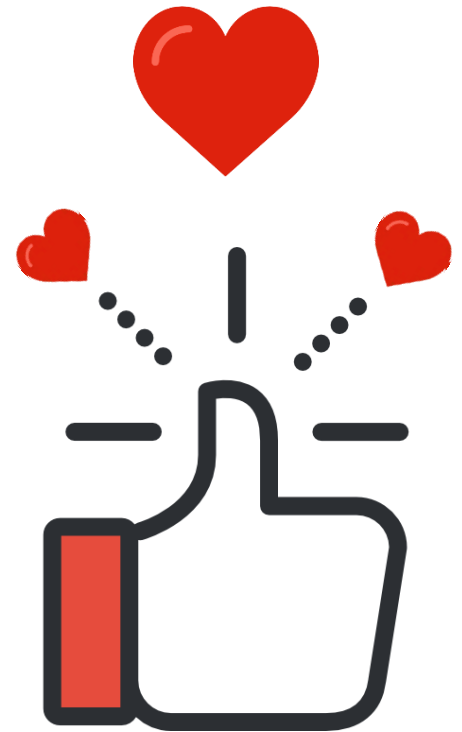
Just Dial

https://www.justdial.com/Ahmedabad/Akash-Technolabs-Navrangpura-Bus-Stop-Navrangpura/079PXX79-XX79-170615221520-S5C4_BZDET



Sulekha

<https://www.sulekha.com/akash-technolabs-navrangpura-ahmedabad-contact-address/ahmedabad>



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