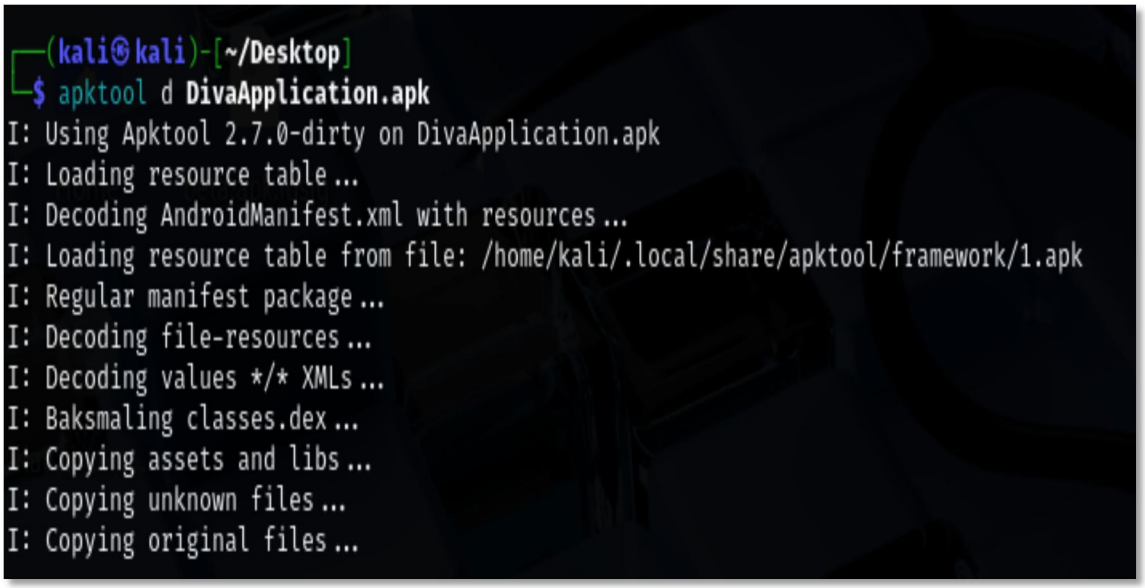
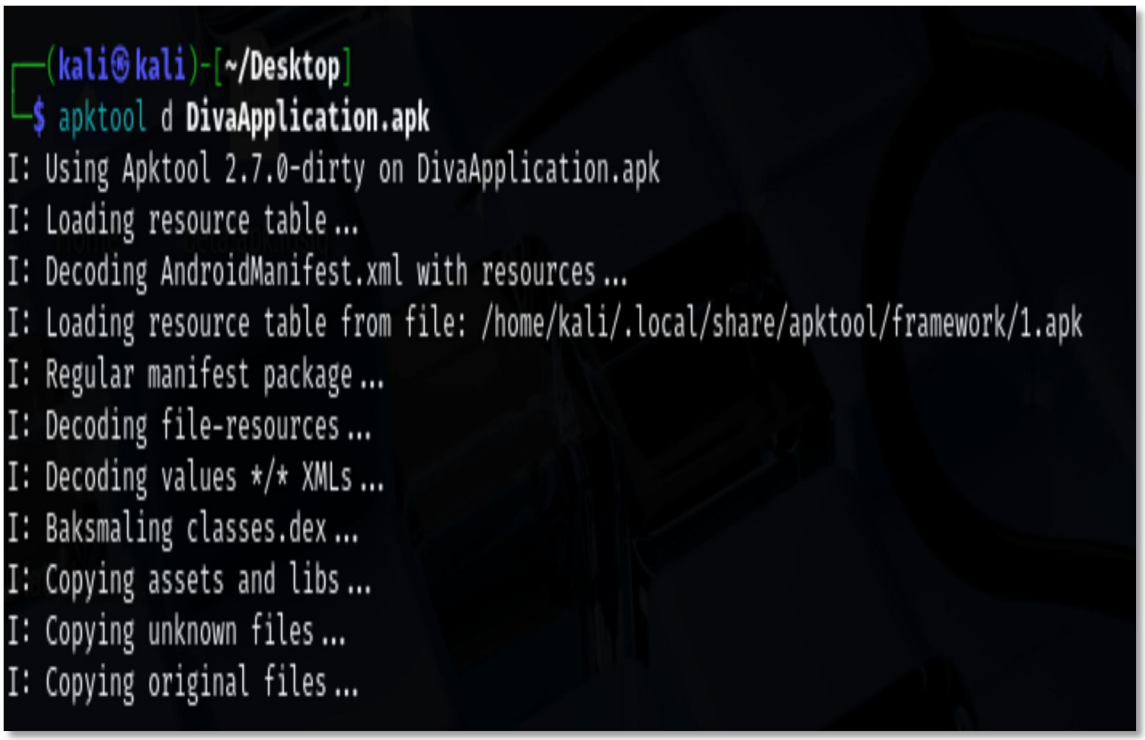
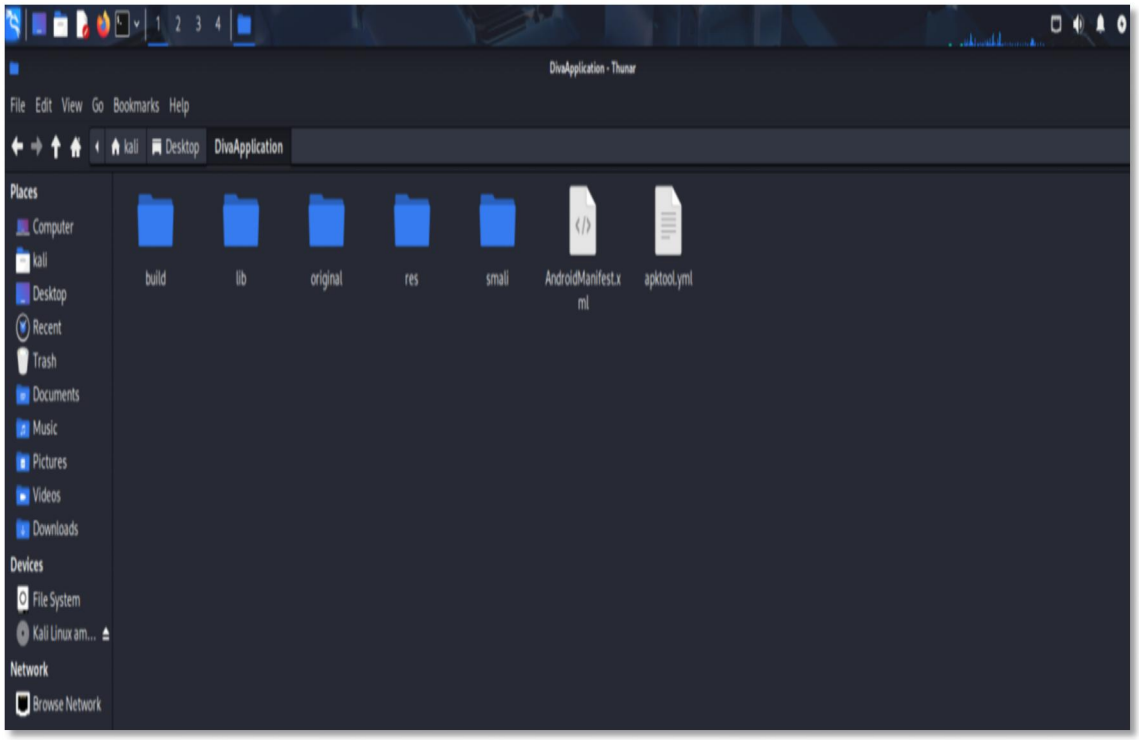
LAB - 9

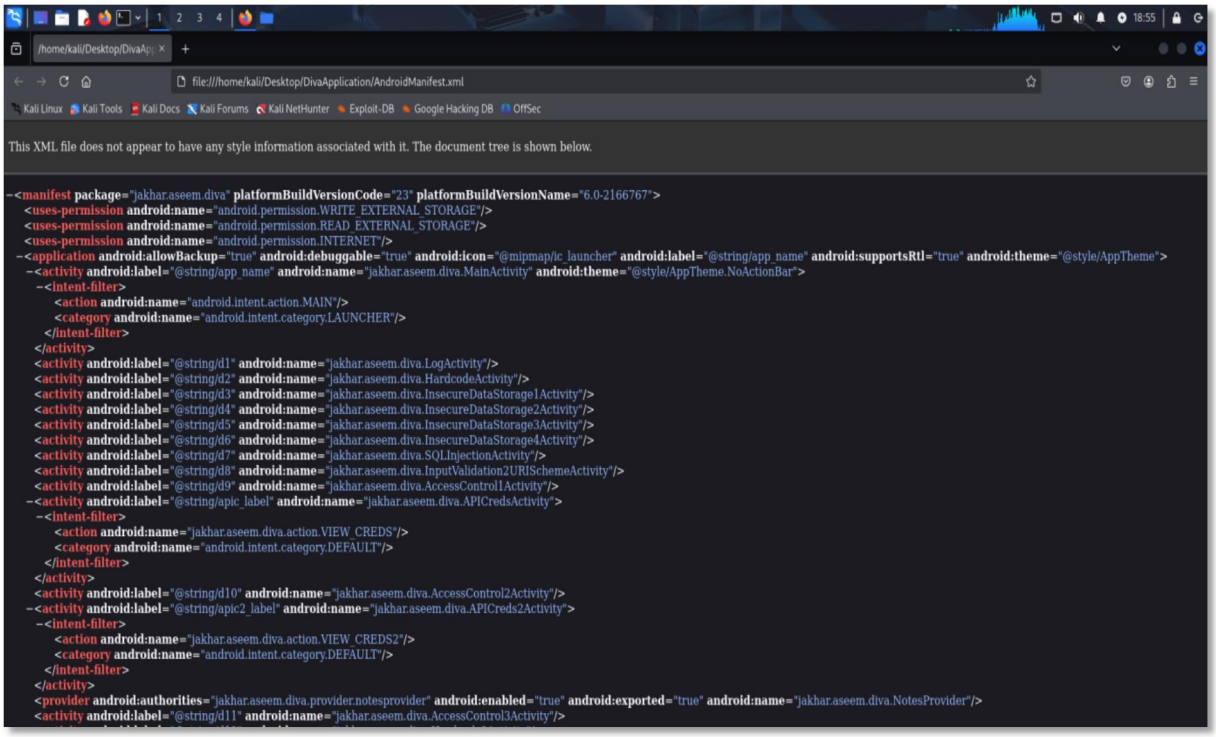
Aim :- Decompiling apk by using apktoolkit.

Decompiling an APK using APKToolkit is the process of extracting and converting an Android application's APK file back into a more human-readable format using the APKToolkit (a utility or collection of tools like apktool, dex2jar, jd-gui, etc.). This process helps understand the app's structure, resources, and behavior — often used in reverse engineering, app debugging, or security testing.






DivaApplication - Thunar
File Edit View Go Bookmarks Help
kali Desktop DivaApplication
Places
Computer
kali
Desktop
Recent
Trash
Documents
Music
Pictures
Videos
Downloads
Devices
File System
Kali Linux am...
Network
Browse Network
build
lib
original
res
smali
AndroidManifest.xml
apktool.yml


file:///home/kali/Desktop/DivaApplication/AndroidManifest.xml
Kali Linux Kali Tools Kali Docs Kali Forums Kali NetHunter Exploit-DB Google Hacking DB OffSec
This XML file does not appear to have any style information associated with it. The document tree is shown below.
<manifest package="jakhar.aseem.diva" platformBuildVersionCode="23" platformBuildVersionName="6.0-2166767">
<uses-permission android:name="android.permission.WRITE_EXTERNAL_STORAGE"/>
<uses-permission android:name="android.permission.READ_EXTERNAL_STORAGE"/>
<uses-permission android:name="android.permission.INTERNET"/>
<application android:allowBackup="true" android:debuggable="true" android:icon="@mipmap/ic_launcher" android:label="@string/app_name" android:supportsRtl="true" android:theme="@style/AppTheme">
<activity android:label="@string/app_name" android:name="jakhar.aseem.diva.MainActivity" android:theme="@style/AppTheme.NoActionBar">
<intent-filter>
<action android:name="android.intent.action.MAIN"/>
<category android:name="android.intent.category.LAUNCHER"/>
</intent-filter>
</activity>
<activity android:label="@string/d1" android:name="jakhar.aseem.diva.LogActivity"/>
<activity android:label="@string/d2" android:name="jakhar.aseem.diva.HardcodeActivity"/>
<activity android:label="@string/d3" android:name="jakhar.aseem.diva.InsecureDataStorage1Activity"/>
<activity android:label="@string/d4" android:name="jakhar.aseem.diva.InsecureDataStorage2Activity"/>
<activity android:label="@string/d5" android:name="jakhar.aseem.diva.InsecureDataStorage3Activity"/>
<activity android:label="@string/d6" android:name="jakhar.aseem.diva.InsecureDataStorage4Activity"/>
<activity android:label="@string/d7" android:name="jakhar.aseem.diva.SQLInjectionActivity"/>
<activity android:label="@string/d8" android:name="jakhar.aseem.diva.InputValidation2URISchemeActivity"/>
<activity android:label="@string/d9" android:name="jakhar.aseem.diva.AccessControl1Activity"/>
<activity android:label="@string/apic_label" android:name="jakhar.aseem.diva.APICredsActivity">
<intent-filter>
<action android:name="jakhar.aseem.diva.action.VIEW_CREDS"/>
<category android:name="android.intent.category.DEFAULT"/>
</intent-filter>
</activity>
<activity android:label="@string/d10" android:name="jakhar.aseem.diva.AccessControl2Activity"/>
<activity android:label="@string/apic2_label" android:name="jakhar.aseem.diva.APICreds2Activity">
<intent-filter>
<action android:name="jakhar.aseem.diva.action.VIEW_CREDS2"/>
<category android:name="android.intent.category.DEFAULT"/>
</intent-filter>
</activity>
<provider android:authorities="jakhar.aseem.diva.provider.notesprovider" android:enabled="true" android:exported="true" android:name="jakhar.aseem.diva.NotesProvider"/>
<activity android:label="@string/d11" android:name="jakhar.aseem.diva.AccessControl3Activity"/>

Conclusion :-

Decompiling an APK using APKToolkit helps developers and security researchers understand app structure and behavior without original source code. It involves decoding the APK to extract resources and smali code, and optionally converting to Java for better readability. While powerful, this method should always be used responsibly and ethically — with permission or for educational purposes.