These are the android java code computed to create the app.

```
1 usage
private int sumOfFactorials(int n) {
    int sum = 0;
    while (n > 0) {
        int f = 1;
        for (int i = n; i > 0; i--) {
            f = f * i;
        }
        sum += f;
        n--;
    }
    return sum;
}
```

This is android manifest file.

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
   <application
       android:allowBackup="true"
       android:dataExtractionRules="@xml/data_extraction_rules"
       android:fullBackupContent="@xml/backup_rules"
       android:icon="@mipmap/ic_launcher"
       android:label="SumOfFactorialsApp"
       android:roundIcon="@mipmap/ic_launcher_round"
       android:supportsRtl="true"
       android:theme="@style/Theme.SumOfFactorialsApp"
       tools:targetApi="31">
       <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
       </activity>
   </application>
</manifest>
```

The activity_main xml file code is given below

```
android:textSize="20sp"
android:layout_below="@id/calculateButton"
android:layout_centerHorizontal="true"
android:layout_marginTop="20dp"/>
```

The application developed is given below.

