```
AndroidManifest.xml
                                                                                      strings.xml
<?xml version="1.0" encoding="utf-8"?>
                                                                  <string name="app name">ContactList</string>
xmlns:android="http://schemas.android.com/apk/res/android"
                                                              </resources>
                                                                                    MainActivity.java
    <uses-permission</pre>
    <uses-permission</pre>
    <application
        android:allowBackup="true"
                                                               import android.Manifest;
                                                               import android.content.pm.PackageManager;
        android:fullBackupContent="@xml/backup rules"
        android:supportsRtl="true"
        android:theme="@style/Theme.ContactList"
        tools:targetApi="31">
        <activity
            android:exported="true">
            <intent-filter>
                <category
            </intent-filter>
        </activity>
                                                                  protected void onCreate(Bundle savedInstanceState)
    </application>
                                                                       super.onCreate(savedInstanceState);
</manifest>
                                                                      setContentView(R.layout.activity main);
```

```
activity main.xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
xmlns:android="http://schemas.android.com/apk/res/android"
   android:layout width="match parent"
   android:orientation="vertical"
    <ListView
</LinearLayout>
                         colors.xml
<?xml version="1.0" encoding="utf-8"?>
    <color name="purple 200">#FFBB86FC</color>
   <color name="teal 200">#FF03DAC5</color>
   <color name="teal 700">#FF018786</color>
   <color name="black">#FF000000</color>
   <color name="white">#FFFFFFFF</color>
 (/resources>
themes.xml
```

parent="Theme.MaterialComponents.DayNight.DarkActionBar">

```
int permissionCheck= ContextCompat.
checkSelfPermission(this,
               Manifest.permission.READ CONTACTS);
        if (permissionCheck== PackageManager.
           showContacts();
           ActivityCompat.requestPermissions(this,
                    new String[]{Manifest.permission.
       ArrayAdapter<String> adapter=new
ArrayAdapter<String>(this, android.R.layout.
        listView.setAdapter(adapter);
   public void onRequestPermissionResult(
PackageManager.PERMISSION GRANTED) {
                        Toast.LENGTH SHORT) .show();
```

# Output



