# Tekflo Internship Task

**Aim**:- To create a package that can implement the following functionlality

It detects following call state when the outgoing call is made and toast the following-

Toast "busy" when the operator is busy.

Toast "switch-off" when the number is switch off.

Toast "line-busy" when the receiver is talk with someone while dialing.

Toast "outside coverage" when the receiver is out of coverage.

Toast "incorrect" when the dialer dials an incorrect number.

Toast "Noti" when the operator sends rest messages like "low balance, offers", etc.

**Technologies Used:-** Java, Android Studio, BroadCast Listener

**Description**: To implement the given functionality I have registered a CallListener receiver by using BroadCast Receiver. It will notify about any changes in the phone state.

To get the cause of disconnection, DisconnectCause class of Android Telecom Framework has been used. The Android Telecom framework is responsible for managing calls on Android Device. More details about Android Telecom Framework can be found here:

<https://developer.android.com/reference/android/telecom/package-summary>

DisconnectCause class describes the cause of a Disconnected Call. To detect the cause the following constants of DisconnectCause class have been used for the listed cause:

|  |  |  |
| --- | --- | --- |
| **Constants** | **Constants Value** | **Used for** |
| LOCAL | 2 | Check if user is busy |
| CONNECTION\_MANAGER\_NOT\_SUPPORTED | 10 | Check if User is switch off |
| BUSY | 7 | Check for line busy |
| RESTRICTED | 8 | Check for incorrect number |
| REMOTE | 3 | Check for low balance or offers |
| ERROR | 1 | Check for Out of Coverage |

More details about the DisconnectCause class of Android Telecom framework can be found here: <https://developer.android.com/reference/android/telecom/DisconnectCause>