```
when btn_DetenerEscaneo .Click
when btn_escanearColores . Click
do set global cantidad_colores to txt_cantidadColores Text
                                                                                                                                                                 do call BluetoothLE1 .StopScanning
                                                                                                                                                                     set ||b| estadoEscaneo || Text || to || || || ||
    🧔 if
                                                                                                                      get global cantidad_colores • = • 3
                    get global cantidad_colores = 1 1 or 1
                                                                    get global cantidad_colores - 2
    then call BluetoothLE1 .WriteStringValue
                                                                                                                                                                 when ActivityStarter1 .ActivityCanceled
                                                6e400001-b5a3-f393-e0a9-e50e24dcca9e
                                 service uuid
                                                                                                                                                                 do set ||bl_estadoBluetooth | Text | to || Bluetooth Apagado ||
                                                6e400002-b5a3-f393-e0a9-e50e24dcca9e
                            characteristic_uuid
                                                        "2"
                                               🔯 join
                                       value
                                                                                                                                                                 when btn_salir . TouchDown
                                                        get global cantidad_colores •
                                                                                                                                                                  x y
          set global habilitar_clasificacion v to true v
                                                                                                                                                                 do close application
          set btn_clasificar . BackgroundColor . to (
          set btn_iniciarClasificacion . Text to Iniciar "
          call quitarColorContadores *
                                                                                                                                                                 when btn_escanear Touched
                                                                                                                                                                  x y touchedAnySprite
          call ntf_mensaje ... ShowAlert
                                                                                                                                                                                  get global habilitar_escaneo 

[ = v ] true v
                                         Cantidad de colores inválida.
                                notice
                                                                                                                                                                     then set lyt_conectar . Visible to false .
                                                                                                                                                                            set [lyt_escanear . Visible . to [true .
initialize global cantidad_colores to [0]
                                                                                                                                                                            set [lyt_clasificar . Visible . to [ false .
                                                                                                                                                                     else call ntf_mensaje .ShowAlert
initialize global (habilitar_escaneo) to ( false *
                                                                                                                                                                                                           Debe establecer la conexión o detener la clasifi...
when Screen1 .Initialize
do call ComprobarBT *
                                                                                                                                                                 when btn_detenerClasificacion . Click
                                                                                                                                                                 do call detenerClasificacion •
initialize global (habilitar_clasificacion) to false
                                                                                                                                                                     set global habilitar_escaneo v to true v
when Reloj .Timer
                                                                                                                                                                 when btn_conectar .Touched
do set Reloj . TimerEnabled to true
                                                                                                                                                                   x y touchedAnySprite
    set Reloj . TimerInterval to 2000
                                                                                                                                                                 do set lyt_conectar . Visible . to true .
    call BluetoothLE1 . ReadStringValue
                                                                                                                                                                     set [yt_escanear . Visible . to [ false .
                                          6e400001-b5a3-f393-e0a9-e50e24dcca9e
                           service_uuid
                                                                                                                                                                      set [lyt_clasificar v . Visible v to [ false v
                                          6e400003-b5a3-f393-e0a9-e50e24dcca9e
                      characteristic_uuid
                              strOffset
                                                                                                                                                                 when ActivityStarter1 .AfterActivity
when btn_clasificar . Touched
                                                                                                                                                                    set Ibl estadoBluetooth . Text . to Bluetooth Encendido
 x y touchedAnySprite
                                                                                                                                                                     call ComprobarBT •
do 🔯 if
                get global habilitar_clasificacion = true
    then set lyt conectar . Visible to false
                                                                                                                                                                 when btn_desconectarDispositivo . Click
          set lyt_escanear . Visible to
                                           false •
                                                                                                                                                                 do call BluetoothLE1 .DisconnectWithAddress
          set lyt_clasificar . Visible to true .
                                                                                                                                                                                                      address | get global Dispositivo •
    else call ntf_mensaje ... ShowAlert
                                                                                                                                                                     set ||b|| estadoConexion | Text | to || Desconectado
                                        Debe escanear los colores.
                                                                                                                                                                      set btn_desconectarDispositivo . Enabled to false .
                                                                                                                                                                      set btn_conectarDispositivo . Enabled to true .
                                                                                                                                                                     set btn_escanearDispositivos v . Enabled v to true v
to ComprobarBT
                                                                                                                                                                     set btn_DetenerEscaneo . Enabled to true .
            ClienteBluetooth . Enabled .
do 🔯 if
                                                                                                                                                                     set global habilitar_escaneo v to false v
    then set Reloj . TimerInterval to 1500
                                                                                                                                                                     set btn_escanear . BackgroundColor . to
          set Reloj . TimerEnabled to true
                                                                                                                                                                     set global habilitar_clasificacion • to false •
                                                                                                                                                                     set btn_clasificar . BackgroundColor . to
          set Ibl estadoBluetooth . Text to Bluetooth Conectado
          set ActivityStarter1 - Action - to android.bluetooth.adapter.action.REQUEST_ENABLE -
                                                                                                                                                                 when BluetoothLE1 . DeviceFound
          call ActivityStarter1 . StartActivity
                                                                                                                                                                 do set btn_conectarDispositivo . ElementsFromString . to BluetoothLE1 . DeviceList
                                                                                                                                                                     set Ibl_estadoEscaneo • . Text • to Dispositivo encontrado.
                                                                                                                                                                     set btn_conectarDispositivo . Enabled . to true .
initialize global Dispositivo to ( " " " "
when BluetoothLE1 . Connected
                                                                                                                                                                 when btn_conectarDispositivo . AfterPicking
do call BluetoothLE1 .StopScanning
                                                                                                                                                                 do set global Dispositivo to segment text btn_conectarDispositivo Selection
    set Ibl_estadoConexion . Text to ( join
                                                   " Conectado a "
                                                                                                                                                                                                       start 11
                                                    get global Dispositivo •
                                                                                                                                                                                                      length 17
    set btn_desconectarDispositivo . Enabled to true .
                                                                                                                                                                     call BluetoothLE1 . ConnectWithAddress
    set btn_conectarDispositivo . Enabled to false .
                                                                                                                                                                                                   address | get global Dispositivo *
    set btn_escanearDispositivos . Enabled . to false .
    set btn_DetenerEscaneo . Enabled to false
    set global habilitar_escaneo • to true •
                                                                                                                                                                    to detenerClasificacion
    set btn_escanear . BackgroundColor . to
                                                                                                                                                                 do call BluetoothLE1 .WriteStringValue
                                                                                                                                                                                            service uuid 6e400001-b5a3-f393-e0a9-e50e24dcca9e "
                                                                                                                                                                                                          6e400002-b5a3-f393-e0a9-e50e24dcca9e
                                                                                                                                                                                       characteristic uuid
when btn_iniciarClasificacion . Click
                                                                                                                                                                                                  value
do call BluetoothLE1 .WriteStringValue
                                                                                                                                                                     set btn iniciarClasificacion •
                                                                                                                                                                                                Enabled to true
                                          6e400001-b5a3-f393-e0a9-e50e24dcca9e
                           service uuid
                                                                                                                                                                     set btn_detenerClasificacion •
                                                                                                                                                                                                 . Enabled to
                                                                                                                                                                                                                 false
                                          6e400002-b5a3-f393-e0a9-e50e24dcca9e
                      characteristic uuid
                                                                                                                                                                     set btn_reiniciarClasificacion *
                                                                                                                                                                                                  Enabled to
                                                                                                                                                                                                                 true '
                                                                                                                                                                                                Text to
                                                                                                                                                                     set btn_iniciarClasificacion •
                                                                                                                                                                                                             "Reanudar conteo
    set btn_iniciarClasificacion . Enabled to
                                               false •
    set btn_reiniciarClasificacion •
                                . Enabled to false
    set btn_detenerClasificacion . Enabled to true .
                                                                                                                                                                    to quitarColorContadores
                                                                                                                                                                 do set [bl_c1 v . BackgroundColor v to
    set global habilitar_escaneo to false
                                                                                                                                                                     set [bl_c2 v . BackgroundColor v to
                                                                                                                                                                     set [lbl_c3 ] . BackgroundColor I to
initialize global ArduinoResponse to create empty list
                                                                                                                                                                     set lbl c1 v . Text v to 0
                                                                                                                                                                     set lbl_c2 . Text to 0
when btn_escanearDispositivos . Click
                                                                                                                                                                     set [bl_c3 v . Text v to [0]
do call BluetoothLE1 .StartScanning
                                                                                                                                                                     set [bl_cNone * ] . Text * to [ 0]
    set [lbl_estadoEscaneo . Text to ]
                                         Buscando dispositivo...
                                                                                                                                                                 when btn_reiniciarClasificacion . Click
when BluetoothLE1 .StringValueChanged
                                                                                                                                                                 do call BluetoothLE1 .WriteStringValue
 stringValue
                                                                                                                                                                                                           6e400001-b5a3-f393-e0a9-e50e24dcca9e
                                                                                                                                                                                            service uuid
do set global ArduinoResponse to split at spaces get stringValue
                                                                                                                                                                                                           6e400002-b5a3-f393-e0a9-e50e24dcca9e
                                                                                                                                                                                       characteristic uuid
    🔯 if
                 select list item list get global ArduinoResponse = = = 1
                                                                     " rgb "
                           index 11
                                                                                                                                                                     set [bl_c1 · ]. Text · to [0]
    then 🔯 if
                                                                                                                                                                     set [bl_c2 ]. Text I to
                       select list item list | get global ArduinoResponse | = 1
                                                                                                                                                                     set [bl_c3 v . Text v to 0
                                 index 2
                                                                                                                                                                     set lbl_cNone . Text to 0
          then set [bl_c1 ]. BackgroundColor  to make color make a list
                                                                                 select list item list | get global ArduinoResponse |
                                                                                                                                                                     set global habilitar_escaneo v to false
                                                                                            index
                                                                                                                                                                     set btn_iniciarClasificacion •
                                                                                                                                                                                                Enabled to false
                                                                                  select list item list | get global ArduinoResponse
                                                                                                                                                                     set btn reiniciarClasificacion •
                                                                                                                                                                                                  Enabled to
                                                                                                                                                                                                                 false
                                                                                            index
                                                                                                                                                                     set btn_detenerClasificacion *
                                                                                                                                                                                                 . Enabled to 1 true
                                                                                 select list item list
                                                                                                    get global ArduinoResponse
                                                                                           index 5
                      select list item list get global ArduinoResponse
                                                                           " c2 "
                                 index 2
          then set [bl_c2 ]. BackgroundColor ] to [ make color [ ] make a list [
                                                                                 select list item list | get global ArduinoResponse |
                                                                                            index
                                                                                  select list item list get global ArduinoResponse
                                                                                            index
                                                                                  select list item list get global ArduinoResponse
                                                                                           index 5
          🧔 if
                       select list item list | get global ArduinoResponse | = 1 | " c3 "
                                index 2
          then set [bl c3 v . BackgroundColor v to [
                                                     make color ( pmake a list
                                                                                 select list item list | get global ArduinoResponse *
                                                                                            index 3
                                                                                  select list item list get global ArduinoResponse *
                                                                                            index 4
                                                                                  select list item list get global ArduinoResponse
                                                                                            index 5
    😥 if
                 select list item list get global ArduinoResponse = = = 1
                                                                     " count "
                          index 1
    then 🔯 if
                      select list item list | get global ArduinoResponse | = | " c1 "
                                 index 2
          index 3
          6
                       index 2
          then set [bl c2 ]. Text to select list item list get global ArduinoResponse .
                                                     index 3
          Ø if
                       select list item list get global ArduinoResponse = c3 " c3 "
                                 index 2
          then set [bl_c3]. Text to select list item list get global ArduinoResponse
                                                     index 3
          🐯 if
                      select list item list get global ArduinoResponse
                                                                           " cNone "
          then set [bl_cNone . Text to select list item list get global ArduinoResponse .
```

index 3