```
n Screen1 ▼ .Initialize
                                                                                                                                                                                                                     call mostrar_ocultar v

    if BluetoothLE1 ▼ IsDeviceConnected ▼

                                                                                                                                                                                                                                  visibilidad 🎇 true 🔻
                                                                                                  then call mostrar_ocultar v
                                                                                                                                                                                                                       set historico_txt ▼ . Visible ▼ to false ▼
                                                                                                                   visibilidad true v
                                                                                                                                                                                                                       set btn_desconectar ▼ . Visible ▼ to true ▼
                                                                                                        set historico_txt ▼ . Visible ▼ to false ▼
                                                                                                                                                                                                                       set btn_escanear ▼ . Visible ▼ to false ▼
                                                                                                        set btn_desconectar ▼ . Visible ▼ to true ▼
                                                                                                                                                                                                                       set BluetoothLE1 ▼ . AutoReconnect ▼ to true ▼
                                                                                                        set btn_escanear ▼ . Visible ▼ to false ▼
                                                                                                                                                                                                                       set label_status ▼ . Text ▼ to ( Status:
                                                                                                        set BluetoothLE1 ▼ . AutoReconnect ▼ to true ▼
                                                                                                                                                                                                                       set label_status_detalle ▼ . Text ▼ to Conectado
                                                                                                        set [label_status ▼]. Text ▼ to [ Status:
                                                                                                                                                                                                                       set list_BLE ▼ . Visible ▼ to false ▼
                                                                                                         set label_status_detalle ▼ . Text ▼ to Conectado
                                                                                                                                                                                                                       call BluetoothLE1 ▼ .RegisterForStrings
                                                                                                         set (list_BLE ▼ . Visible ▼ to (false ▼
                                                                                                                                                                                                                                                serviceUuid 📕 get global SERVICE_UUID 🔻
                                                                                                        call BluetoothLE1 ▼ .RegisterForStrings
                                                                                                                                                                                                                                          characteristicUuid get global CHARACTERISTIC_UUID2 🔻
                                                                                                                                              get global SERVICE_UUID ▼
                                                                                                                                 serviceUuid 🌗
                                                                                                                                                                                                                                                     utf16 📜 false ▼
                                                                                                                                              get global CHARACTERISTIC_UUID2 🔻
                                                                                                                            characteristicUuid
                                                                                                                                                                                                                       call BluetoothLE1 ▼ .WriteBytes
                                                                                                                                       utf16 | false ▼
                                                                                                                                                                                                                                                       get global SERVICE_UUID ▼
                                                                                                                                                                                                                                          serviceUuid
                                                                                                                                                                                                                                                       get global CHARACTERISTIC_UUID2 ▼
                                                                                                                                                                                                                                    characteristicUuid
                                                                                                                                                                                                                                                      false 🔻
                                                                                                                                                                                                                                              signed [
                                                                                                 en (btn ultimas lecturas ▼ .Click
                                                                                                                                                                                                                                                        " @ '
                                                                                                                                                                                                                                              values
                                                                                                   if BluetoothLE1 v . IsDeviceConnected v
                                                                                                  then ( if  if  inot ( historico_txt ▼ ). Visible ▼
                                                                                                                                                                                                                  when BluetoothLE1 ▼ .DeviceFound
                                                                                                         then set historico_txt ▼ . Visible ▼ to true ▼
                                                                                                                                                                                                                     if BluetoothLE1 ▼ . Scanning ▼
                                                                                                               set historico_txt ▼ . Text ▼ to
                                                                                                                                                                                                                    then call BluetoothLE1 ▼ .StopScanning
                                                                                                               call BluetoothLE1 ▼ .WriteStrings
                                                                                                                                                get global SERVICE_UUID ▼
                                                                                                                                   serviceUuid
                                                                                                                                                                                                                    set list_BLE ▼ . ElementsFromString ▼ to BluetoothLE1 ▼ . DeviceList ▼
                                                                                                                                                get global CHARACTERISTIC_UUID2 V
                                                                                                                              characteristicUuid
                                                                                                                                                false ▼
                                                                                                                                        utf16
                                                                                                                                                                                                                when Screen1 ▼ .ErrorOccurred
                                                                                                                                                 " {h:1} '
                                                                                                                                       values (
                                                                                                                                                                                                                 component functionName errorNumber message
                                                                                                         else set historico_txt ▼ . Visible ▼ to false ▼
                                                                                                                                                                                                                    🔯 if
                                                                                                                                                                                                                                  get errorNumber v = v (1101 or v)
                                                                                                                                                                                                                                                                            get errorNumber v = v (1103
                                                                                                               set historico_txt ▼ . Text ▼ to 📜 " 📗
                                                                                                                                                                                                                    then call Notifier1 ▼ .ShowAlert
                                                                                                                                                                                                                                                       Se requiere una conexión a internet.\n¿Se encuen...
                                                                                                 n select umbrales .AfterPicking
                                                                                                                                                                                                                 when web3_estado_red ▼ .GotText
                                                                                                 if BluetoothLE1 . IsDeviceConnected .
                                                                                                                                                                                                                 (url responseCode responseType responseContent
                                                                                                  then call BluetoothLE1 .WriteStrings
                                                                                                                                                                                                                                get responseCode ▼ ≠ ▼ ( 200
                                                                                                                            serviceUuid get global SERVICE_UUID v
                                                                                                                                                                                                                    then call Notifier1 ▼ .ShowAlert
                                                                                                                      characteristicUuid get global CHARACTERISTIC_UUID2 v
                                                                                                                                                                                                                                                      " Hay un problema con la conexión.
                                                                                                                                 utf16 🃜 false 🔻
                                                                                                                                                   " {u: "
                                                                                                                                values 🕻 🧔 join (
                                                                                                                                                  select_umbrales ▼ . Selection ▼
                                                                                                         set global umbral_actual ▼ to [ select_umbrales ▼ . Selection ▼
                                                                                                                                                                                                                    when btn_escanear ▼ .Click
                                                                                                                                                                                                                      if ■ BluetoothLE1 ▼ . Scanning ▼
                                                                                                                                                                                                                       then call BluetoothLE1 .StopScanning
                                                                                                when [btn_parar_busqueda ▼ .Click
                                                                                                   if BluetoothLE1 ▼ IsDeviceConnected ▼
                                                                                                                                                                                                                               BluetoothLE1 ▼ . IsDeviceConnected ▼
                                                                                                    then set BluetoothLE1 ▼ . AutoReconnect ▼ to [ false ▼
                                                                                                                                                                                                                       then set BluetoothLE1 ▼ . AutoReconnect ▼ to false ▼
                                                                                                          call fnc_desconectar v
                                                                                                                                                                                                                             call fnc_desconectar ▼
                                                                                                    set btn_parar_busqueda ▼ . Visible ▼ to false ▼
                                                                                                                                                                                                                       set btn_desconectar ▼ . Visible ▼ to false ▼
                                                                                                    set btn_escanear ▼ . Visible ▼ to true ▼
                                                                                                                                                                                                                        set btn_parar_busqueda ▼ . Visible ▼ to true ▼
                                                                                                    call BluetoothLE1 ▼ .StopScanning
                                                                                                                                                                                                                       set btn_escanear ▼ . Visible ▼ to false ▼
                                                                                                    set label_status ▼ . Text ▼ to ( Status: "
                                                                                                                                                                                                                       call BluetoothLE1 ▼ .StartScanning
                                                                                                    set [label_status_detalle ▼]. Text ▼ to (■ Búsqueda detenida) "
                                                                                                                                                                                                                       set label_status ▼ . Text ▼ to Fig. Status:
                                                                                                                                                                                                                       set label_status_detalle ▼ . Text ▼ to Buscando dispositivos cercanos...
                                                                                                                                                                                                                       set list_BLE ▼ . Visible ▼ to true ▼
                                                                                                when list_BLE v .AfterPicking
                                                                                                   set btn_parar_busqueda ▼ . Visible ▼ to false ▼
                                                                                                   set btn_escanear ▼ . Visible ▼ to true ▼
                                                                                                                                                                                                                    to fnc_desconectar
                                                                                                   set btn_desconectar ▼ . Visible ▼ to false ▼
                                                                                                                                                                                                                    do set label_status ▼ . Text ▼ to ( "Status: "
                                                                                                   call BluetoothLE1 ▼ .StopScanning
                                                                                                                                                                                                                        set [label_status_detalle ▼]. Text ▼ to (■ ** Desconectando...)
                                                                                                   set [label_status ▼ . Text ▼ to [ " Status: "
                                                                                                                                                                                                                        if BluetoothLE1 ▼ . IsDeviceConnected ▼
                                                                                                   set [abel_status_detalle ▼ . Text ▼ to ( Conectando... "
                                                                                                                                                                                                                         then call BluetoothLE1 .UnregisterForValues
                                                                                                   call BluetoothLE1 ▼ .Connect
                                                                                                                                                                                                                                                                      get global SERVICE_UUID 🔻
                                                                                                                                                                                                                                                         service_uuid 📙
                                                                                                                         index ( list_BLE ▼ . SelectionIndex ▼
                                                                                                                                                                                                                                                   characteristic_uuid get global CHARACTERISTIC_UUID2 v
                                                                                                                                                                                                                               call BluetoothLE1 ▼ .Disconnect
                                                                                                 when BluetoothLE1 .ConnectionFailed
                                                                                                                                                                                                                        set btn_parar_busqueda ▼ . Visible ▼ to false ▼
                                                                                                  reason
                                                                                                                                                                                                                        set btn_escanear ▼ . Visible ▼ to false ▼
                                                                                                 do call fnc_desconectar ▼
                                                                                                                                                                                                                        set historico_txt ▼ . MultiLine ▼ to true ▼
                                                                                                     set [label_status ▼]. Text ▼ to Falló la conexión:
                                                                                                     set [abel_status_detalle ▼ . Text ▼ to [get reason ▼
                                                                                                    call mostrar_ocultar ▼
                                                                                                                                                                                                                      en btn_desconectar v .Click
                                                                                                                visibilidad (false v
                                                                                                                                                                                                                        if BluetoothLE1 ▼ . IsDeviceConnected ▼
                                                                                                     set btn_desconectar ▼ . Visible ▼ to false ▼
                                                                                                                                                                                                                        then set BluetoothLE1 ▼ . AutoReconnect ▼ to false ▼
                                                                                                     set btn_escanear ▼ . Visible ▼ to true ▼
                                                                                                                                                                                                                             call fnc_desconectar v
                                                                                                                                                                                                                  when BluetoothLE1 ▼ .Disconnected
                                                                                                                                                                                                                     set [label_status_detalle ▼]. Text ▼ to [ Desconectado...]"
                                                                                                                                                                                                                     call [fnc_desconectar ▼
                                                                                                                                                                                                                     set btn_desconectar ▼ . Visible ▼ to false ▼
                                                                                              when btn_salir ▼ .Click
                                                                                                                                                                                                                     set btn_parar_busqueda ▼ . Visible ▼ to false ▼
                                                                                                close application
                                                                                                                                                                                                                     set btn_escanear ▼ . Visible ▼ to true ▼
                                                                                                                                                                                                                     set [label_status ▼ . Text ▼ to [ Status: ]
                                                                                                                                                                                                                     set [label_status_detalle ▼]. Text ▼ to [ Desconectado]
                                                                                                                                                                                                                     call mostrar_ocultar ▼
                                                                                                 vhen switch_nube ▼ .Changed
                                                                                                                                                                                                                                visibilidad 🎇 false 🔻
                                                                                                    if switch_nube v . On v
                                                                                                    then set switch_email ▼ . Enabled ▼ to true ▼
                                                                                                                                                                                                                    set horizontal_tension_alarma ▼ . Visible ▼ to ↓ get visibilidad ▼
                                                                                                          call chequear_cnx ▼
                                                                                                                                                                                                                     set horizontal_3botones ▼ . Visible ▼ to get visibilidad ▼
                                                                                                    else set switch_email ▼ . On ▼ to false ▼
                                                                                                                                                                                                                     set historico_txt ▼ . Visible ▼ to  get visibilidad ▼
                                                                                                          set switch_email ▼ . Enabled ▼ to false ▼
                                                                                                                                                                                                                     set historico_txt ▼ . Text ▼ to
                                                                                                                                                                                                                  to chequear_cnx
                                                                                                                                                                                                                 do set web3_estado_red ▼ . Url ▼ to https://www.ing.unlp.edu.ar/sitio/srv/www/vhosts...
                                                                                                                                                                                                                     call web3_estado_red ▼ .Get
                                                                                                                                                                                                                  when btn_ver_DB ▼ .Click
                                                                                                                                                                                                                     set web2_traer_tabla ▼ . Url ▼ to thttps://www.ing.unlp.edu.ar/sitio/srv/www/vhosts...
                                            0000FFE1-0000-1000-8000-00805F9B34FB
initialize global CHARACTERISTIC UUID2 to
                                                                                                initialize global str_pares to 📜 " 🔲 "
                                                                                                                                                                                                                     call <u>web2_traer_tabla</u> .Get
                                   0000FFE0-0000-1000-8000-00805F9B34FB
                                                                                                initialize global str_clave_valor to
initialize global (lista_clave_valor) to 🌔 😝 create empty lis
                                                                                                 nitialize global (tension_actual) to
                                                                                                                                                                                                                   hen web2_traer_tabla ▼ .GotText
initialize global (lista_pares) to 🌔 😝 create empty list
                                                                                                                                                                                                                  url responseCode responseType responseContent
                                                                                                 initialize global (lectura) to 🌾 🦲 "
initialize global recientes to 🚺 👩 create empty list
                                                                                                 initialize global <code>umbral_actual</code> to 🔰 " 1.5 "
                                                                                                                                                                                                                                  get responseCode ▼ = ▼ 200
                                                                                                 initialize global clave to
                                                                                                                                                                                                                                                             " Screen2
                                                                                                                                                                                                                     then open another screen screenName
                                                                                                 initialize global valor to
                                                                                                 initialize global hex2str to
                                                                                                                                                                                                                   hen switch_email ▼ .Changed
                                                                                                                                                                                                                     if switch_email ▼ . On ▼
                                                                                                 initialize global mail to
                                                                                                                        " 0 "
                                                                                                                                                                                                                     then call chequear_cnx v

    when BluetoothLE1 ▼ .StringsReceived

                                                                                            serviceUuid characteristicUuid stringValues
                                                                                                         is a list? thing 🌹 get stringValues 🔻
                                                                                                                 contains text ( get stringValues ▼ and ▼ contains text ( get stringValues ▼
                                                                                                                                                                  piece 🛴 " 🚹 "
                                                                                                                         piece
                                                                                                     then 2 call [json2lista_pares v
                                                                                                                             entrada 🌽 get stringValues ▼
                                                                                                                                                                                                                                     to json2lista_pares entrada
                                                                                                            do 🔯 initialize local (texto_limpiando) to 🖒 get (entrada 🔻
                                                                                                            then for each pares_clave_valor in list get global lista_pares ▼
                                                                                                                                                                                                                                       in set global lista_pares ▼ to ( create empty lis
                                                                                                                  set texto_limpiando ▼ to ( replace all text ( get texto_limpiando ▼
                                                                                                                                                                            entrada 🎾 get [pares_clave_valor 🔻
                                                                                                                               pot is list empty? list pet global lista_clave_valor ▼
                                                                                                                                                                                                                                                                        segment
                                                                                                                                                                                                                                                                     replacement
                                                                                                                      then 🏻 🔯 if
                                                                                                                                                           get global lista_clave_valor ▼ = ▼ 📜 2
                                                                                                                                         | length of list list 🌗
                                                                                                                                                                                                                                                                    set texto limpiando ▼ to
                                                                                                                              then set global clave ▼ to select list item list get global lista_clave_valor ▼
                                                                                                                                                                                                                                                                        segment
                                                                                                                                                                    index 📜 1
                                                                                                                                                                                                                                                                      replacement (
                                                                                                                                    set global valor ▼ to [ select list item list [ get global lista_clave_valor ▼
                                                                                                                                                                                                                                                                    split ▼ text ( get texto_limpiando ▼
                                                                                                                                                                                                                                           set global lista_pares ▼ to
                                                                                                                                                                   index 📜 2
                                                                                                                                   call (acciones v
                                                                                                                                                        get (global clave ▼
                                                                                                                                                 valor 🍃 get 🛭 global valor 🔻
                                                                                                                                                                                                                                 to pares2clave_valor entrada
                                                                                                                                                                                                                                result 🛴 🔯 initialize local (texto_limpiando) to 🛴 get (entrada 🔻
                                                                                                                                                                                                                                            initialize local (lista_clave_valor) to 🚺 🔯 create empty list
                                                                                                                                                                                                                                              do set global lista_clave_valor ▼ to ( create empty lis
                                                                                                                                                                                                                                                   set texto_limpiando ▼ to ( replace all text | get texto_limpiando ▼
                                                                                              to acciones clave valor
                                                                                                                                                                                                                                                                                segment 🂢 " 🊺 "
                                                                                                          compare texts | get global clave v = v ( " a "
                                                                                                                                                                                                                                                                             replacement [
                                                                                                                                                                                                                                                                           replace all text 💢 get texto_limpiando ▼
                                                                                                                                                                                                                                                  set texto limpiando ▼ to [
                                                                                                               compare texts ( get global valor  > ( 0
                                                                                                                                                                                                                                                                                segment
                                                                                                      then set alarma ▼ . Visible ▼ to true ▼
                                                                                                                                                                                                                                                                              replacement [
                                                                                                            set Clock1 ▼ . TimerEnabled ▼ to true ▼
                                                                                                                                                                                                                                                  set global lista_clave_valor ▼ to ( split ▼ text ( get texto_limpiando ▼
                                                                                                      else set alarma ▼ . Visible ▼ to false ▼
                                                                                                            set Clock1 ▼ . TimerEnabled ▼ to false ▼
                                                                                                                                                                                                                                              result 🗼 get [global lista_clave_valor ▼
                                                                                                         compare texts 🥛 get global clave 🔻 🖃 🖫 " n "
                                                                                               then set global tension_actual ▼ to get global valor ▼
                                                                                                     set tension ▼ . Text ▼ to 🙀 🔯 join 😭 get global valor ▼
                                                                                                                                            " V '
                                                                                                                                                                                                                                  to almacenar_en_DB tension umbral email
                                                                                                                 alarma 🔻 . Visible 🔻 📒 🔻 🖟 true 🔻
                                                                                                                                                                                                                               do call Notifier1 ▼ .ShowAlert
                                                                                                     then (c) if (switch_email √). On √
                                                                                                                                                                                                                                                               " Guardando en la nube...
                                                                                                                                                                                                                                                      notice 🌘
                                                                                                            then set global mail v to ( " 1 "
                                                                                                                                                                                                                                    set web1_enviar_datos ▼ . Url ▼ to thttps://www.ing.unlp.edu.ar/sitio/srv/www/vhosts...
                                                                                                                                                                                                                                    call web1_enviar_datos ▼ .PostText
                                                                                                                                                                                                                                                                                 " v= "
                                                                                                      else set global mail ▼ to ( " 0 "
                                                                                                                                                                                                                                                                text 🛴 🔯 join
                                                                                                                                                                                                                                                                                 get (tension v
                                                                                                              switch_nube ▼ . On ▼
                                                                                                                                                                                                                                                                                  " &u= '
                                                                                                      then call almacenar_en_DB v
                                                                                                                                                                                                                                                                                 get umbral 🔻
                                                                                                                                      get global tension_actual ▼
                                                                                                                                                                                                                                                                                  " &m= "
                                                                                                                                      get global umbral_actual ▼
                                                                                                                                                                                                                                                                                get email ▼
                                                                                                         compare texts 🦊 get global clave 🔻 🖃 🕻 " h "
                                                                                                then set historico_txt ▼ . Text ▼ to call hex2str ▼
                                                                                                                                                                                                                                  to hex2str campo_texto tension
                                                                                                                                      tension 🗼 get 🛭 global valor 🔻
                                                                                                                                                                                                                                       do set tension ▼ to convert number hex to base 10 ▼ get tension ▼
                                                                                                                                                                                                                                            set tension ▼ to tension ▼ x
                                                                                                                                                                                                                                                                                        3.3 / 1023
                                                                                               call BluetoothLE1 ▼ .WriteBytes
                                                                                                                 result 🌹 🔯 join 🎇 format as decimal number 🌹 get 🕻 tension 🔻
                                                                                                             characteristicUuid 🙀 get 🛾 global CHARACTERISTIC_UUID2 🔻
                                                                                                                                                                                                                                                                          places 📜 🙎
                                                                                                                      signed (false v
                                                                                                                                                                                                                                                           " V\n "
                                                                                                                               " @ "
                                                                                                                      values 🌘
                                                                                                                                                                                                                                                         get campo_texto ▼
                                                                                            when Clock1 .Timer
                                                                                             then ② if switch_email ▼ . On ▼
                                                                                                        then call Notifier1 ▼ .ShowAlert
                                                                                                                                notice Enviando email... '
                                                                                                              call almacenar_en_DB ▼
                                                                                                                                       get global tension_actual ▼
                                                                                                                              tension (
                                                                                                                              umbral 🍃 get [global umbral_actual 🔻
                                                                                                                               email 🌔 get 🛭 global mail 🔻
                                                                                                        if (switch_sms v . On v
                                                                                                        then set Texting1▼. Message▼ to 🕻 🔯 join 🕻 " Alarma de tensión baja:
                                                                                                                                                         get global tension_actual v
                                                                                                              call Notifier1 ▼ .ShowAlert
                                                                                                                                         " Enviando SMS de alerta...
                                                                                                                                notice (
                                                                                                              call Texting1 ▼ .SendMessageDirect
```

initialize global SERVICE_UUID to

when BluetoothLE1 v .Connected