```
Main
  set mode to client
Start button callback
  get port
  get protocol
  if client mode
     get host
     get incoming file source
     get packet size
     get packet count
     create ClientNetworkAdapter and assign it to global
     ClientNetworkAdapter.Run()
  else if server mode
     create ServerNetworkAdapter and assign it to global
     ServerNetworkAdapter.Run()
ClientNetworkAdapter
  init
     initialize winsock
     create host structure
     initialize socket based on protocol type
     assign host to socket
     if protocol is tcp
       connect to socket
     open file to prepare for sending
  Run
     allocate buffer for packet size
     if a file was specificed
       sendFile()
    else
       sendPackets()
  sendFile
     while file still has new data to read
       send packetsize packet
          if error
            grab error and alert about it
  sendPackets
    if tcp
       for packetCount times
          tcp send packetSize packet with given string inside
          if error
```

```
grab error and alert about it
     if udp
       for packetCount times
         udp send packetSize packet with given string inside
            grab error and alert about it
ServerNetworkAdapter
  init
     initialize winsock
     create host structure
     initialize socket based on protocol type
  Run
     set packetReceiveCounter to 0
     set dataReceivedTotal to 0
     bind the socket
    if tcp
       listenTCP
    if udp
       listenUDP
  listenTCP
     listen for a connection
     while the thread is running
       if a new connection is accepted and there is no error
       while there is more data to read from the stream
          read the stream
          write it to file
          dataReceivedTotal += amount of data that was received
  listenUDP
    while the thread is running
       listen for packets
         if a packet was successfully read
            write it to file
            packetReceiveCounter++
            dataReceivedTotal += amount of data that was received
         else
```

grab error and alert about it