Main function:

* The main operating loop that is listening for user input on buttons or gui elements and serve an appropriate response.
* Must be as separated as possible from logic and gui functions to increase modularity.

Local IP Address lookup (function)

1. Retrieve the default gateway of the endpoint you wish to scan
2. Use this IP as the input for an ARP call appending the 1/24 CIDR notation to denote IP 3rd octet range from 0 to 255
3. Save the output of this function to a list variable type
4. Now you have the local IP address’s on the network and their associated Mac addresses saved to an easy to access list
5. (Still need to implement a way to get 802.11 wireless packets to get non ether devices)

Subnets

DNS Server

Default Gateway

Ping Test (function)

1. Can be done with built in scapy ICMP packet builder
   1. Have user specify an IPV4 address they wish to ping
   2. Have this variable saved and call the ICMP function with this parameter as IP address
   3. Return the results from the ICMP request
2. (Bonus feature would be to include a range of IP’s the user wishes to query and ping them all)

Traceroutes (function)

Packet Sniffer (function)

1. Can give users a way to select how long they wish to sniff
2. Using