**Port Scanner Pseudocode**

1. Start the program
2. Ask the user to enter IP address/host name and validate the input
3. Get the starting and ending port to be scanned from the user. Check whether the range is specified correctly
4. Start scanning the IP address and port by doing the following actions
   1. Create a socket using IPv4 and TCP
   2. Try connecting to IP at current port
      1. If the connection is successful
         1. print the message “Port is open “ in the specified port number
         2. Close the socket
      2. Else do scan for all other ports in the given range.
5. Do the proper exception handling mechanism for port opening, user interrupts or other interrupts
6. End the program