TNE20003 – Internet and Cybersecurity for Engineering Applications

Understanding Sockets and Network Programming

Aims:

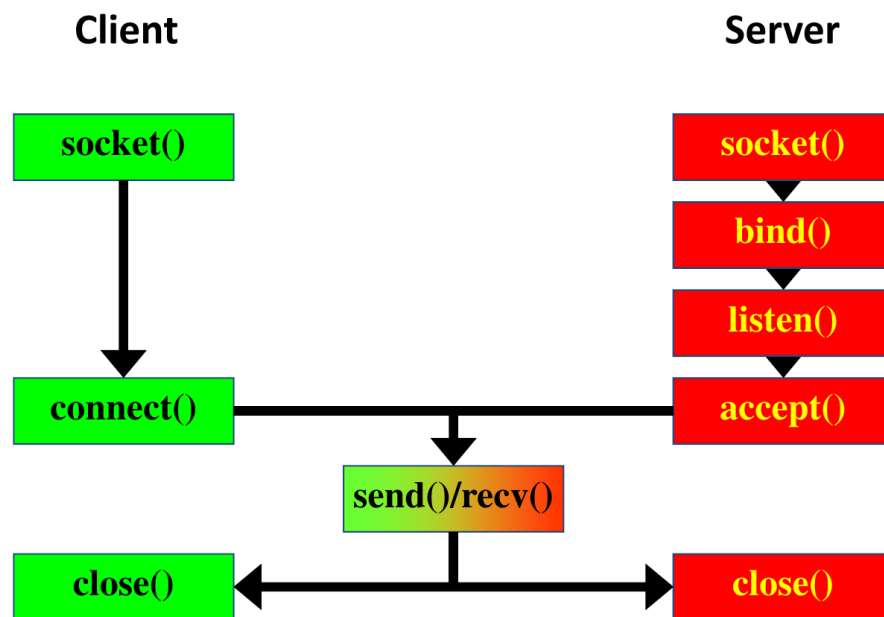To understand socket APIs and network programming in general

Preparation:

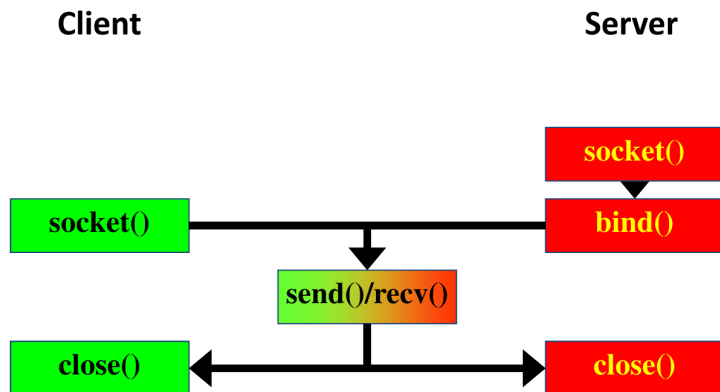View "Internet Enabled Programming"

Due Date:

Nil. In-class activity.

1. Which of the TCP/IP layer is mainly concerned with internet programming?

2. List the 2 main protocols that operate at this layer and write a 1 sentence description of each?

3. What is a socket?

4. Which protocol does the following application flowchart belong to?

Client   ## Server

Client	Server
socket()	socket()
	bind()
	listen()
connect()	accept()
send()/recv()	
close()	close()

Define what happens at each of the states of the flow chart.

5.   Which protocol does the following application flowchart belong to?

Client   **Server**

Define what happens at each of the states of the flow chart.

The tutor should go through an example of some code and highlight these functions.