National Institute of Technology, Tiruchirappalli - 15
Department of Computer Science and Engineering
Assignment-1
CSLR52 – Networks Laboratory

Course/Department: B.Tech./CSE   **Session: July/2021**
Submission Deadline: 20-10-2021 (11:59 PM)   **Marks: 15**

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1) Write a server program for TCP using Python to do the following:

   a. Server returns the binary value of the text sent by the client. Example: for a text string "comnetsii", the client should receive "01100011 01101111 01101101 01101110 01100101 01110100 01110011 01101001 01101001"

   b. The server should be running at the localhost interface

   c. You are free to choose any port

2) The Binary Decoding Server: Write another server running on eth1 interface to do the following:

   a. Server returns the string value of a binary input. Example: the binary string "01100011 01101111 01101101 01101110 01100101 01110100 01110011 01101001 01101001" sent from the client should return "comnetsii"

3) Write two client programs one for each of the server.

   a. What happens if the client aborts (e.g., when the input is CTRL/D)?

   b. Can you run two clients against the same server? Why or why not? Hint: Multithreaded socket server in Python

   c. What happens when you try to connect client1 to server2 by passing a wrong network address (e.g., connecting to localhost instead of eth1 IP)?

Submission Assignment

1) Every Problem should be implemented in separated code files.
2) You should make a report which consist of discussion regarding each problem about your findings and observations after the experiments/coding.
3) All the materials should be zipped in a single folder and uploaded. Name of the folder should be your roll number and assignment number, for example – "11100898_Assignment1.zip"
4) Submission link will be provided shortly.