CMPE 148 Lab Assignment #1, Due: Tuesday, March 24, 2020

Topic: client and server software design using sockets

1.   Write TCP client and server programs in Python that the client sends a set of integers that represent years to the server. The server receives the set, checks whether each integer (year) is a leap year or not, and sends the result back to the client. The client then receives the results and prints it out. You should test your program for different testcases.

2.   Repeat problem # 1 using UDP client and server programs.

Note: Client should read testcases line-by-line from a file placed in the same folder as the client. As an example of a line would be:

2000 2019 2020 2021 2022 2024 2100

  a. This is an individual assignment that needs to be submitted to Canvas by the deadline.
  b. Format of the submission is as follows.
    - You shall submit two files; *firstname_lastname.zip* and *firstname_lastname.docx*, replaced with your names.
    - Your *.zip* file must have source files (.py files) and README.md file(s) which explains how to use your programs (with testcases for each).
    - *Firstname_lastname.docx* must have all the source code from all the source files (.py files). This is because turnitin cannot investigate *.zip* file.

  NOTE: Not following the submission format will result in 10% penalty.