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ICMP-Pinger

ICMP-Pinger Program

Design/pseudocode/hierarchy chart/description of your program

My design was to first, learn about the socket module in Python. I felt like Python was the easiest way to go with a project like this because many of the modules Python has to offer are very user friendly, especially those with networking involved. My program is an ICMP-Pinger which can ping localhost and many other IP addresses around the world, it also allows you to enter a custom IP address that you wish to ping.

Printed copy of your source code

See attached file: ICMPpinger.py

Your program running environment and executing commands

I ran my program in my terminal as it has a CLI. The commands I used are

python ICMPpinger.py

Sample runs of your program

See attached text file: sample_runs.txt

Program report

(a) I did complete the entirety of this project. I worked by myself on this project and enjoyed the opportunity it gave me to learn about sockets, pinging, and Python. I received help from many networking websites that explain the process of pinging and how it works.

When did I work on this?

April 1: 2hr

April 2: 1hr

April 5: 1hr

April 6: 1hr

I found this program interesting and would like to learn how to program lower level sockets and understand the full process on how information enters and leaves our PC.

(b) I completed this project by myself, I found the syntax of Python to be difficult as I have never used it before and also, understanding how the ping function worked however, I enjoyed the time I worked on the program. I put about 5 hours into this program, not including the time to write this report. I learned that there are many variables you must consider when you are programming around a network.