

README

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To run HIC

To run this program:

1. install numpy
 - a. Open the Command Prompt
 - b. Install a package manager by typing "pip install numpy"
2. Unzip "Lab5_Singh_Harkiret"
3. Open "Numerical with airbag.py" and "Numerical with airbag.py" in Spyder
4. Run code on spyder

Hospital Simulation

To run this program:

1. install numpy &
 - a. Open the Command Prompt
 - b. Install a package manager by typing "pip install numpy"
2. Unzip "Lab5_Singh_Harkiret"
3. Open "ER_modeling.py" and "ER_Both_Sat.py" in Spyder
4. Run code on spyder

Safety Lock

To run code on PYNQ:

- Connect board to a ethernet cable and connect that to your router

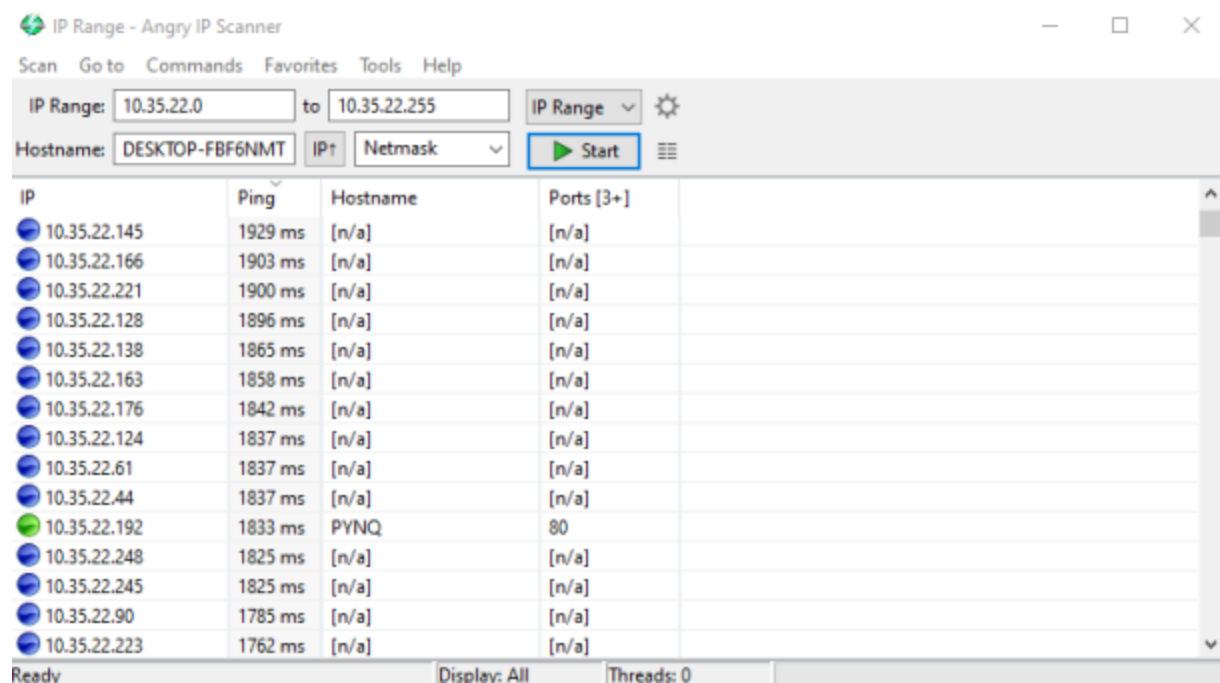
- under command prompt, search 'ipconfig'
- Get the ip address of your computer network
- Install Angryip from <https://angryip.org/>
- use the ip address of your computer to narrow down your ip search

```
Ethernet adapter Ethernet:

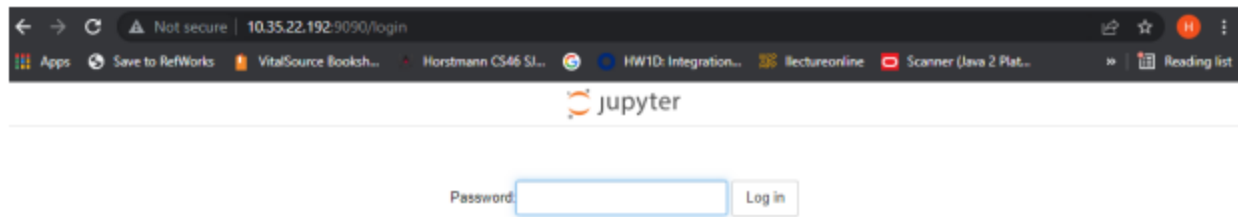
    Connection-specific DNS Suffix  . : sjsu.edu
    IPv4 Address. . . . . : 10.35.22.198
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 10.35.22.254
```

In the screenshot above the ip of the computer is 10.35.22.198

- Open AngryIp scanner
- Ip range should be 0 - 255



- PYNQ connected on this network is seen to have a IP address of 10.35.22.192
- search this ip address on your browser and it should lead you to a xilinx page



- Password: xilinx
- Click on upload
- Upload downloaded file "Lab 5 part 3.ipynb"
- Open file
- Run file

PYNQ Board connections:



Connect a jumper wire as below:

A0 = AR0

A1 = AR1

A2 = AR2

A3 = AR3

A4 = AR4

A5 =AR5

Youtube link:

Part 1: <https://youtu.be/tyOkUeQXE8g>

Part 2: <https://youtu.be/tyOkUeQXE8g>

In part 2 I corrected my error of the ER modeling. In Part 1 i showed the wrong ER modeling presentation