HWD101: Lab #6

Networking

Purpose:

Construct a basic network with Raspberry Pis.

Pre-Lab:

Bring the following to lab class:

* Raspberry Pi
* Crossover network cable

Activity:

Activity is performed in groups of 2. Using the Crossover network cable created in the last lab to connect 2 Raspberry Pis together. Perform the following tasks on each Pi.

Using a terminal session, run the command: **ifconfig -a**

* What is displayed when the command is executed?

Use a number between 1 and 10 to assign an IP address and a HOST number to your Raspberry Pi.

IP address: 192.168.?.? (example)  
Subnet mask: 255.255.255.0

* Configure this IP address to your Raspberry Pi.

Using a terminal session, run the command: **ifconfig -a**

Verify the configuration changes are saved on adapter “eth0”.

* Record the IP address and Subnet mask of each Raspberry Pi.
  + 1st machine:
  + 2nd machine:

Using a terminal session, run the command: **ping 192.168.?.? (example)**

* Were you successful? Why or why not?
* If not, how would you correct this problem?
* Demonstrate the Raspberry Pis can ping each other.

**Submission Instructions:**

* Questions Completed
* Demonstration Completed
* Lab signed off

Grade Weight:

1% of Final Grade