MLLMIC055, RGRNIC007 Tutorial 1 EEE3096S

1.1.7 Walkthrough

```
pi@raspberrypi:~ $ $ sudo raspi-config
-bash: $: command not found
pi@raspberrypi:~ $ sudo raspi-config
pi@raspberrypi:~ $ ls
pi@raspberrypi:~ $ mkdir RGRNIC007
pi@raspberrypi:~ $ ls
RGRNIC007
pi@raspberrypi:~ $
```

```
pi@raspberrypi:~ $ ifconfig
lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
        inet 127.0.0.1  netmask 255.0.0.0
        inet6 ::1  prefixlen 128  scopeid 0x10<host>
        loop  txqueuelen 1000  (Local Loopback)
        RX packets 0  bytes 0 (0.0 B)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 0  bytes 0 (0.0 B)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

usb0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 169.254.131.152  netmask 255.255.0.0  broadcast 169.254.255.255
        inet6 fe80::d407:a584:47ae:5a3d  prefixlen 64  scopeid 0x20<link>
        ether 32:cc:ac:8e:0b:f4  txqueuelen 1000  (Ethernet)
        RX packets 0  bytes 0 (0.0 B)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 0  bytes 0 (0.0 B)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

wlan0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 192.168.1.64  netmask 255.255.255.0  broadcast 192.168.1.255
        inet6 fe80::ad7b:424:5155:9e76  prefixlen 64  scopeid 0x20<link>
        ether b8:27:eb:a1:eb:7a  txqueuelen 1000  (Ethernet)
        RX packets 453  bytes 37318 (36.4 KiB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 323  bytes 70229 (68.5 KiB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

pi@raspberrypi:~ $ lscpu
Architecture:          armv6l
Byte Order:            Little Endian
CPU(s):                1
On-line CPU(s) list:   0
Thread(s) per core:    1
Core(s) per socket:    1
Socket(s):             1
Vendor ID:             ARM
Model:                 7
Model name:            ARM1176
Stepping:              r0p7
CPU max MHz:           1000.0000
CPU min MHz:           700.0000
BogoMIPS:              697.95
Flags:                 half thumb fastmult vfp edsp java tls
pi@raspberrypi:~ $ vcgencmd measure_temp
temp=29.9'C
pi@raspberrypi:~ $
```

Questions

1. Git is used as a version control system for collaborative projects. It keeps track of individual workflows and allows for projects to easily be rolled back as new versions are added. Git is important to keep track of complex work structures as it manages the individual contributions of many breakaway teams to a common task.
2.
```
$ git add .
$ git commit -m "First commit"
$ git remote add origin 'https://github.com/fake/link.git'
$ git push -u origin master
```
3.
    a. An untracked file means that git is not responsible for its management. It will not be staged or included in the repository.
    b. A staged file is being tracked by git and is being monitored for any changes. These files can continue to be worked on until they are committed.
    c. A committed file is a staged file that has been saved to the repository. Its version will be stored on the repository and can be rolled back to the point of its commit at any time.

Programming Task

Programming task solution pushed to shared repository. See link below:

Shared git repository:
https://github.com/MikeMillard/EEE3096S-Tutorials-Pracs.git