EEE3096 Tutorial 1

PGRSAM001

BRDJAK002

Terminal task:

```
pi@raspberrypi:~ $ mkdir PGRSAM001
pi@raspberrypi:~ $ ls
PGRSAM001
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

wlan0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 192.168.0.107  netmask 255.255.255.0  broadcast 192.168.0.255
        inet6 fe80::2d4a:26c2:66cd:1cc6  prefixlen 64  scopeid 0x20<link>
        ether b8:27:eb:74:4c:47  txqueuelen 1000  (Ethernet)
        RX packets 635  bytes 71948 (70.2 KiB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 162  bytes 25577 (24.9 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=24.5'C
```

Git:

1. Git is a version control system. It tracks changes made and these records can be used to revert back to a previous version if an error has occurred. Git also makes collaboration in projects much easier.
2.
    a. Git init
    b. Git remote add https://github.com/fake/link.git
    c. Git commit
    d. Git push
3.
    a. A file that has not been staged
    b. A staged file is a file that is prepared for a commit and allows you to continue making changes in the working directory.
    c. A committed file is a file that has been saved to the repository.

Coding:

```
# include <stdio.h>

int main(){

    int a, b, sum;


    printf("Enter a value for a: ");

    scanf("%d", &a);


    printf("Enter a value for b: ");

    scanf("%d", &b);

    sum = a + b;


    printf("The sum of a and b is %d \n.",sum);

}
```