



UNIDAD ACADÉMICA MULTIDISCIPLINARIA MANTE

PROGRAMACIÓN DE INTERFACES Y PUERTOS

Prácticas: parcial 3

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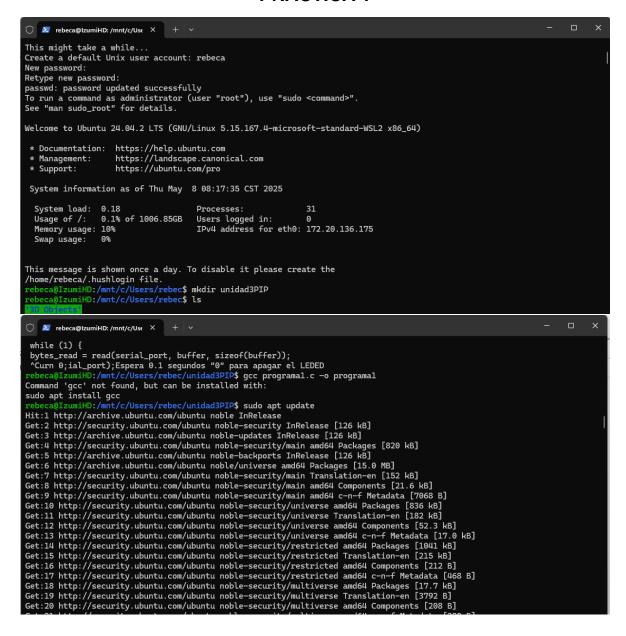
Ciudad Mante, Tamaulipas

Mayo, 2025



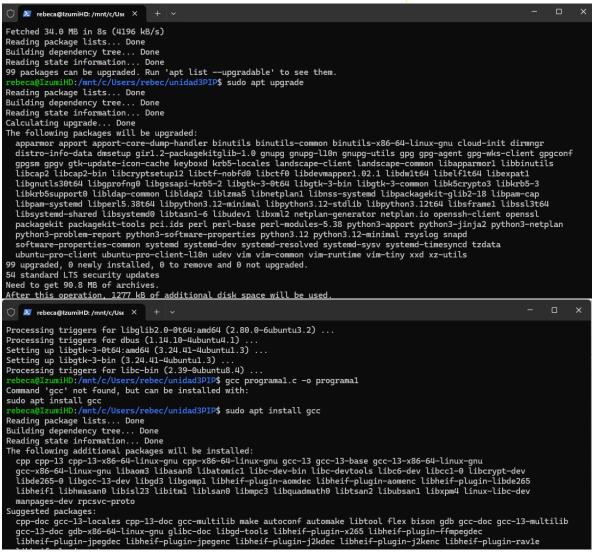


PRÁCTICA 1



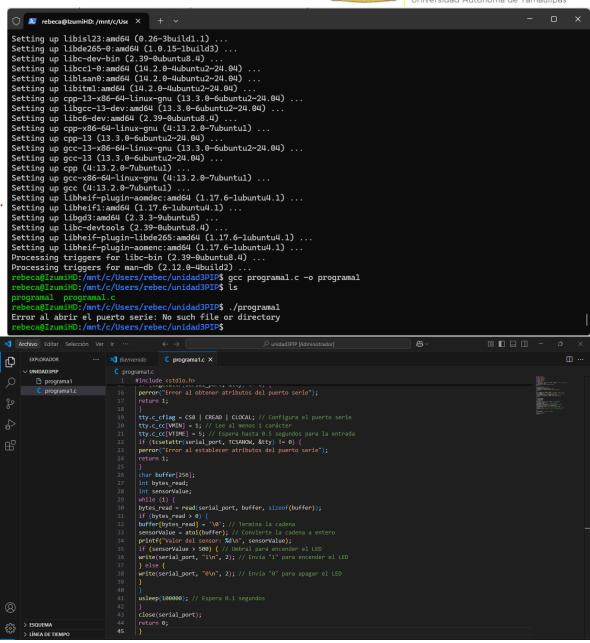












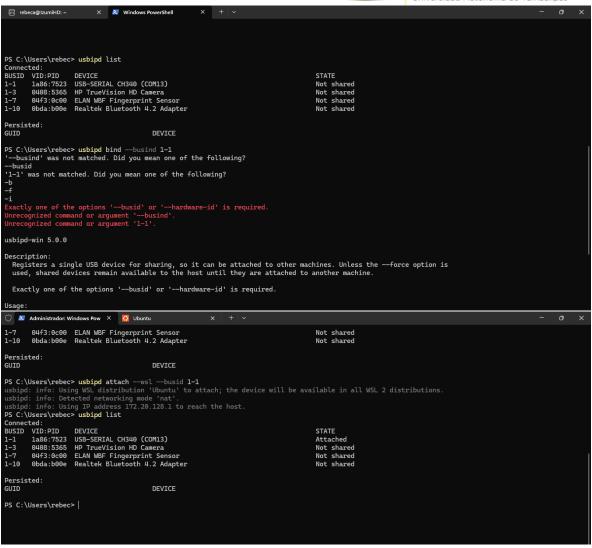




```
rebeca@IzumiHD: $ lsusb
Command 'lsusb' not found, but can be installed with:
sudo apt install usbutils
rebeca@IzumiHD: $ sudo apt install usbutils
[sudo] password for rebeca:
Reading package lists... Done
Reading state information... Done
Reading state information... Done
Reading state information... Done
The following additional packages will be installed:
libusb-1.0-0
Suggested packages:
usbutils-py
The following NEW packages will be installed:
libusb-1.0-0 usbutils
0 upgraded, 2 newly installed, 0 to remove and 0 not upgraded.
Need to get 139 kB of archives.
After this operation, 469 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://archive.ubuntu.com/ubuntu noble/main amd64 libusb-1.0-0 amd64 2:1.0.27-1 [54.0 kB]
Get:2 http://archive.ubuntu.com/ubuntu noble/main amd64 usbutils amd64 1:017-3build1 [84.5 kB]
Fetched 139 kB in 25 (66.0 kB/s)
Selecting previously unselected package libusb-1.0-0:amd64.
(Reading database ... 45106 files and directories currently installed.)
Preparing to unpack .../libusb-1.0-0:2%3a1.0.27-1 ...
Selecting previously unselected package usbutils.
Preparing to unpack .../usbutils 1%3a017-3build1_amd64.deb ...
Unpacking libusb-1.0-0:amd64 (2:1.0.27-1) ...
Selecting up usbutils (1:017-3build1) ...
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for libc-bin (2.39-0ubuntu8.4) ...
rebeca@IzumiHD: $ lsusb
Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
Bus 001 Device 002: ID 1a86:7523 QinHeng Electronics CH340 serial converter
                       🔾 🗾 Administrador: Windows Powe 🗙 🦞 Ubuntu
                                          Administrador: Windows Powe X  Ubuntu
    Get:2 http://archive.ubuntu.com/ubuntu noble/main amd64 usbutils amd64 1:017-3build1 [84.5 kB]
Fetched 139 kB in 2s (66.0 kB/s)
Selecting previously unselected package libusb-1.0-0:amd64.
(Reading database ... 45106 files and directories currently installed.)
Preparing to unpack .../libusb-1.0-0-2%3a1.0.27-1_amd64.deb ...
Unpacking libusb-1.0-0:amd64 (2:10.27-1) ...
Selecting previously unselected package usbutils.
Preparing to unpack .../usbutils 1%3a017-3build1_amd64.deb ...
Unpacking usbutils (1:017-3build1) ...
Setting up libusb-1.0-0:amd64 (2:10.27-1) ...
Setting up up usbutils (1:017-3build1) ...
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for libc-bin (2.39-0ubuntu8.4) ...
rebeca@IzumtHD:-$ lsusb
Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
Bus 001 Device 001: ID 1d6b:0003 Linux Foundation 3.0 root hub
rebeca@IzumtHD:-$ ls/dev
-bash: ls/dev: No such file or directory
rebeca@IzumtHD:-$ ls /dev
autofs full log null ram15 sdc tty12 tty25 tty38 tty5
bus hugepages loop0 ppp ram3 sg0 tty14 tty27 tty4 tty5
btffs-rootroll hvr8 loop1 btms ram4 sg1 tty15 tty28 tty80 tty5
btffs-rootroll hvr8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  serial
sg0
sg1
sg2
shm
stderr
stdin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ram9
random
rtc
rtc0
sda
sdb
                       ebeca@IzumiHD:~$
```

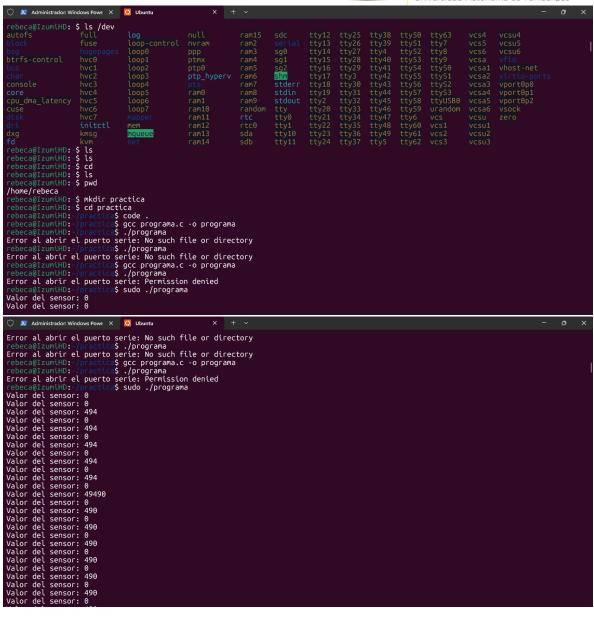






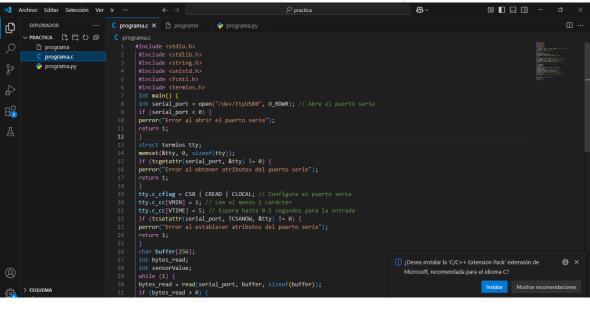




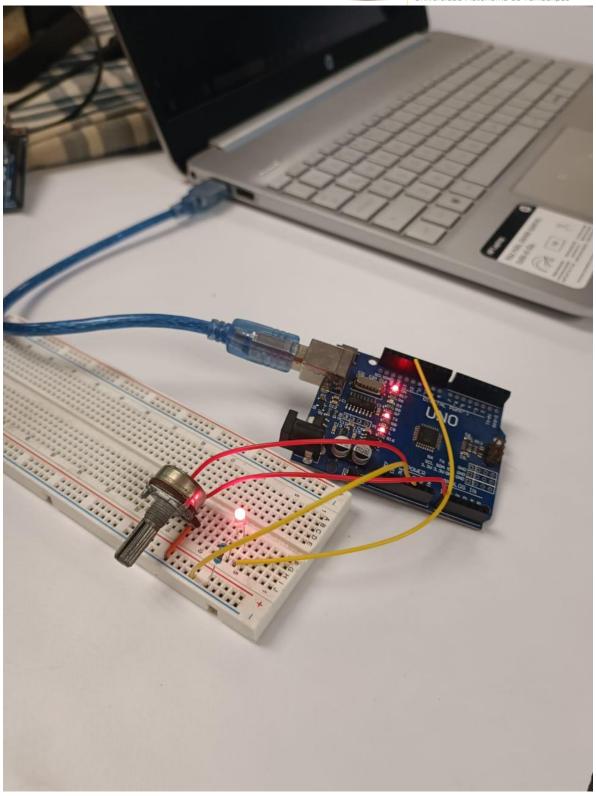




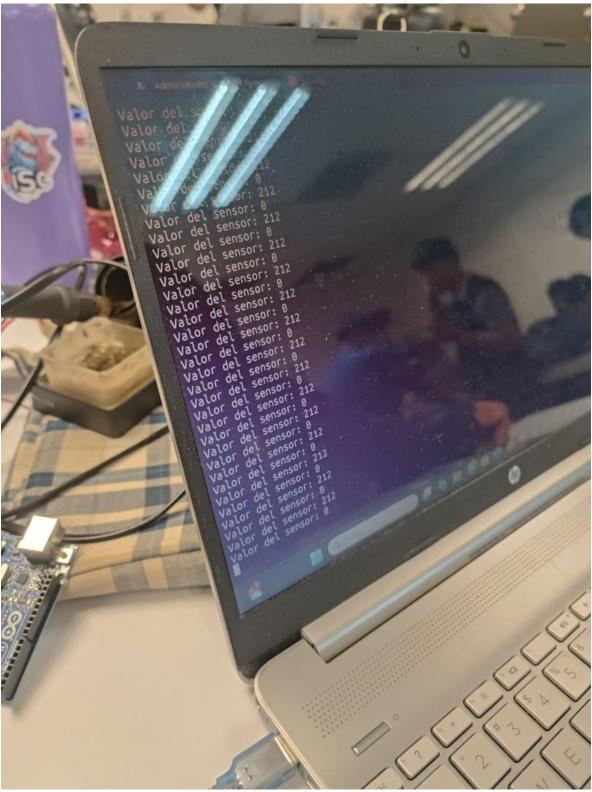








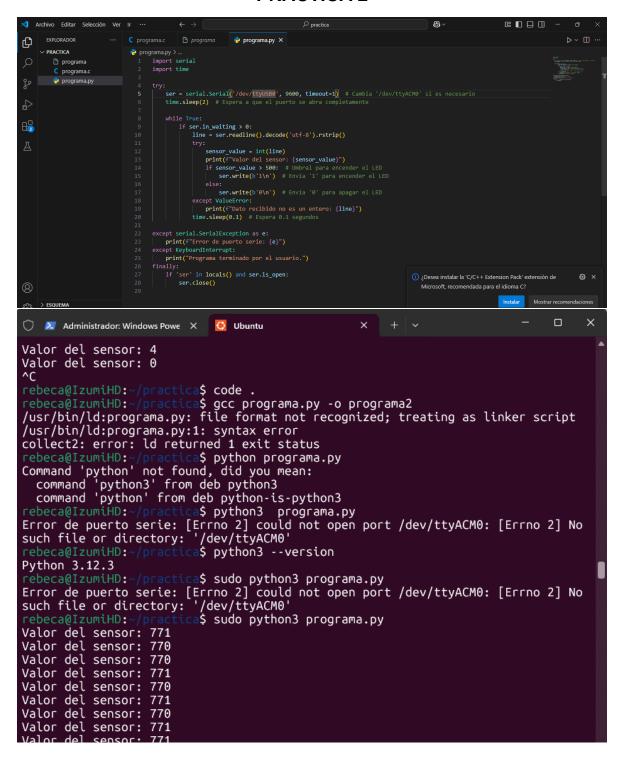






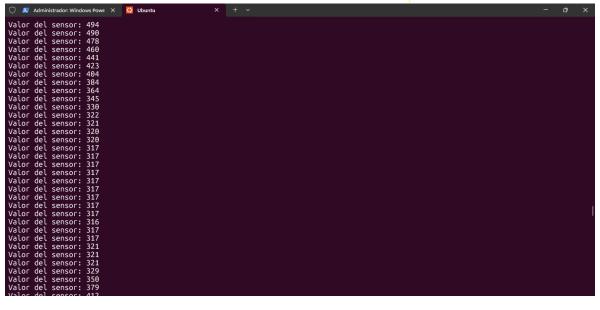


PRÁCTICA 2

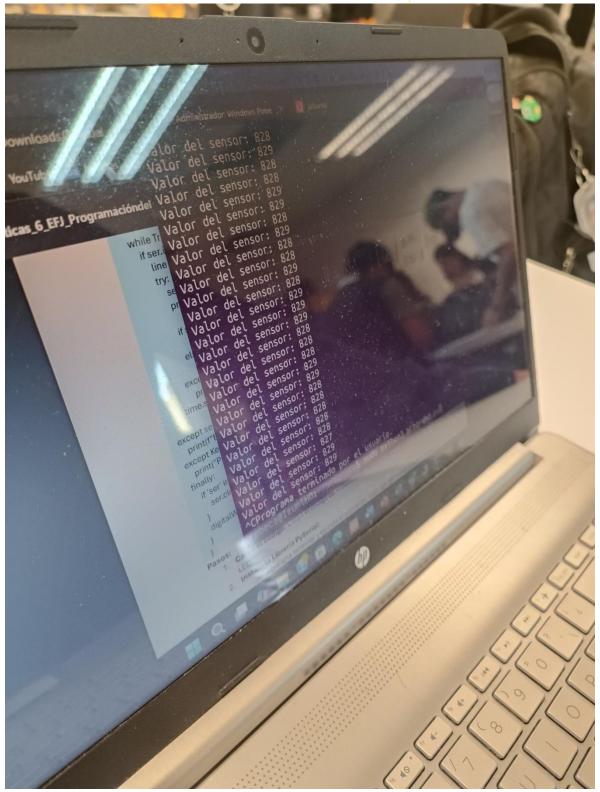
















PRÁCTICA 3

