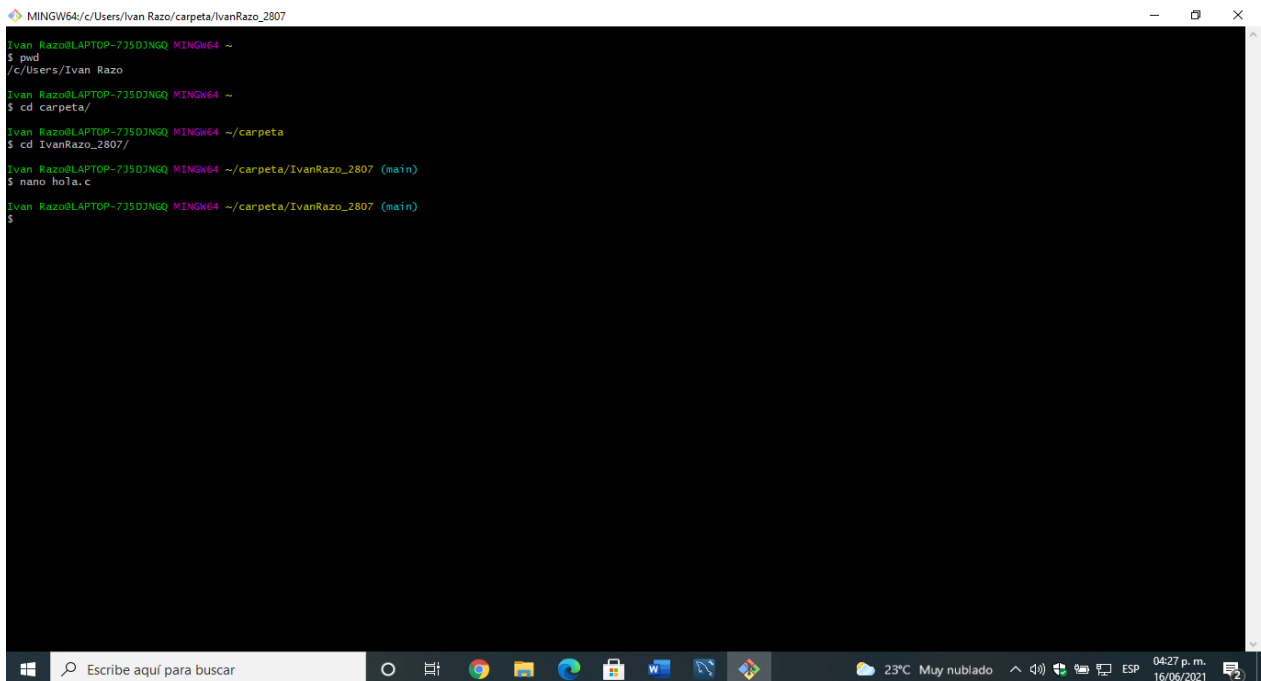
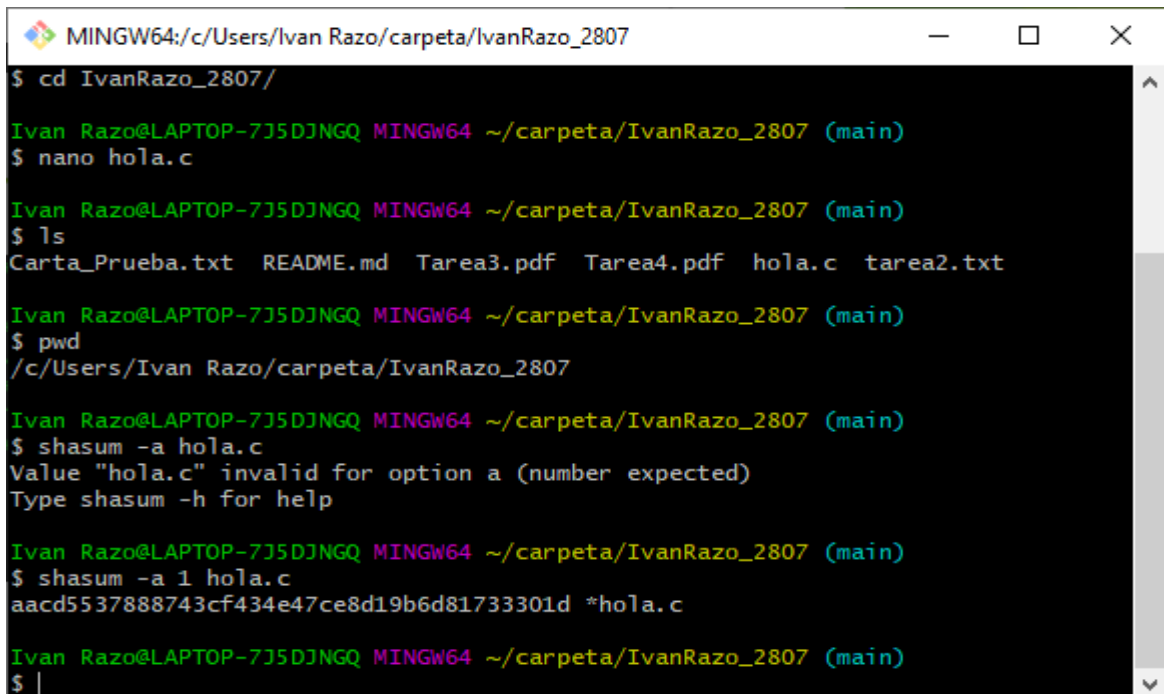


Crear archivo con extensión .c



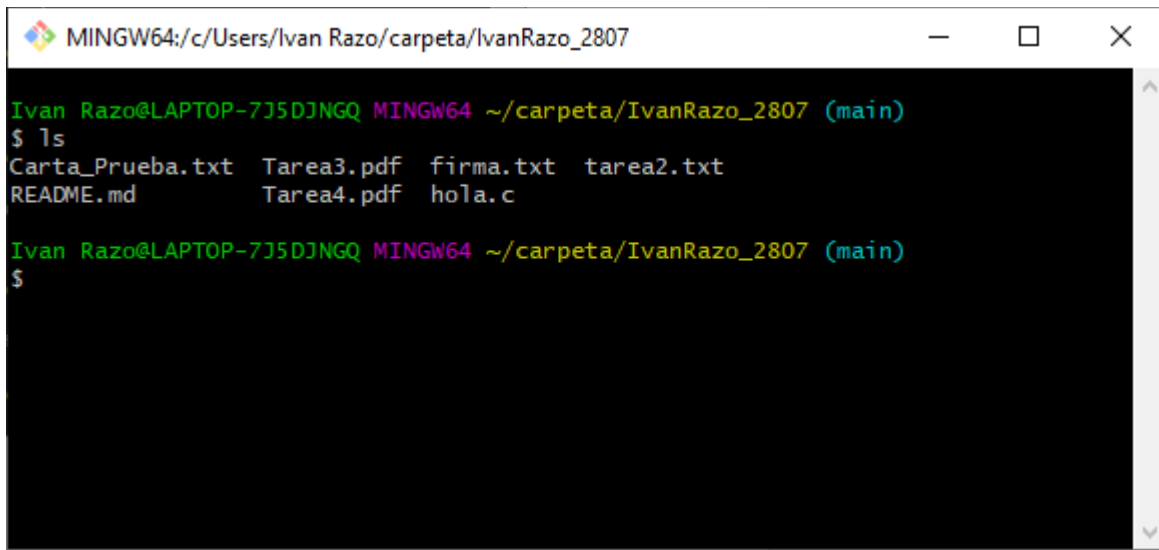
```
MINGW64:/c/Users/Ivan Razo/carpeta/IvanRazo_2807
Ivan Razo@LAPTOP-7J5DJNGQ MINGW64 ~
$ pwd
/c/Users/Ivan Razo
Ivan Razo@LAPTOP-7J5DJNGQ MINGW64 ~
$ cd carpeta/
Ivan Razo@LAPTOP-7J5DJNGQ MINGW64 ~/carpeta
$ cd IvanRazo_2807/
Ivan Razo@LAPTOP-7J5DJNGQ MINGW64 ~/carpeta/IvanRazo_2807 (main)
$ nano hola.c
Ivan Razo@LAPTOP-7J5DJNGQ MINGW64 ~/carpeta/IvanRazo_2807 (main)
$
```

Crear un hash del archivo creado (hola.c)



```
MINGW64:/c/Users/Ivan Razo/carpeta/IvanRazo_2807
$ cd IvanRazo_2807/
Ivan Razo@LAPTOP-7J5DJNGQ MINGW64 ~/carpeta/IvanRazo_2807 (main)
$ nano hola.c
Ivan Razo@LAPTOP-7J5DJNGQ MINGW64 ~/carpeta/IvanRazo_2807 (main)
$ ls
Carta_Prueba.txt  README.md  Tarea3.pdf  Tarea4.pdf  hola.c  tarea2.txt
Ivan Razo@LAPTOP-7J5DJNGQ MINGW64 ~/carpeta/IvanRazo_2807 (main)
$ pwd
/c/Users/Ivan Razo/carpeta/IvanRazo_2807
Ivan Razo@LAPTOP-7J5DJNGQ MINGW64 ~/carpeta/IvanRazo_2807 (main)
$ shasum -a hola.c
Value "hola.c" invalid for option a (number expected)
Type shasum -h for help
Ivan Razo@LAPTOP-7J5DJNGQ MINGW64 ~/carpeta/IvanRazo_2807 (main)
$ shasum -a 1 hola.c
aacd5537888743cf434e47ce8d19b6d81733301d *hola.c
Ivan Razo@LAPTOP-7J5DJNGQ MINGW64 ~/carpeta/IvanRazo_2807 (main)
$
```

Guardar la firma en un documento .txt

A terminal window titled 'MINGW64:/c/Users/Ivan Razo/carpeta/IvanRazo\_2807' with standard window controls. The prompt is 'Ivan Razo@LAPTOP-7J5DJNGQ MINGW64 ~/carpeta/IvanRazo\_2807 (main)'. The user enters '\$ ls', and the output lists files: 'Carta\_Prueba.txt', 'Tarea3.pdf', 'firma.txt', 'tarea2.txt', 'README.md', 'Tarea4.pdf', and 'hola.c'.

```
MINGW64:/c/Users/Ivan Razo/carpeta/IvanRazo_2807
Ivan Razo@LAPTOP-7J5DJNGQ MINGW64 ~/carpeta/IvanRazo_2807 (main)
$ ls
Carta_Prueba.txt  Tarea3.pdf  firma.txt  tarea2.txt
README.md        Tarea4.pdf  hola.c
Ivan Razo@LAPTOP-7J5DJNGQ MINGW64 ~/carpeta/IvanRazo_2807 (main)
$
```

Se hace un pequeño cambio

A terminal window titled 'MINGW64:/c/Users/Ivan Razo/carpeta/IvanRazo\_2807' with standard window controls. The prompt is 'Ivan Razo@LAPTOP-7J5DJNGQ MINGW64 ~/carpeta/IvanRazo\_2807 (main)'. The user enters '\$ ls', and the output lists files: 'Carta\_Prueba.txt', 'Tarea3.pdf', 'firma.txt', 'tarea2.txt', 'README.md', 'Tarea4.pdf', and 'hola.c'. Then, the user enters '\$ cat firma.txt', and the output is 'aacd5537888743cf434e47ce8d19b6d81733301d'. Finally, the user enters '\$ nano hola.c', and the prompt returns to '\$ |'.

```
MINGW64:/c/Users/Ivan Razo/carpeta/IvanRazo_2807
Ivan Razo@LAPTOP-7J5DJNGQ MINGW64 ~/carpeta/IvanRazo_2807 (main)
$ ls
Carta_Prueba.txt  Tarea3.pdf  firma.txt  tarea2.txt
README.md        Tarea4.pdf  hola.c
Ivan Razo@LAPTOP-7J5DJNGQ MINGW64 ~/carpeta/IvanRazo_2807 (main)
$ cat firma.txt
aacd5537888743cf434e47ce8d19b6d81733301d
Ivan Razo@LAPTOP-7J5DJNGQ MINGW64 ~/carpeta/IvanRazo_2807 (main)
$ nano hola.c
Ivan Razo@LAPTOP-7J5DJNGQ MINGW64 ~/carpeta/IvanRazo_2807 (main)
$ |
```

Se genera un documento donde se guarda el hash creado con el cambio.

```
MINGW64:/c/Users/Ivan Razo/carpeta/IvanRazo_2807
$ nano firma.txt

Ivan Razo@LAPTOP-7J5DJNGQ MINGW64 ~/carpeta/IvanRazo_2807 (main)
$ ^C

Ivan Razo@LAPTOP-7J5DJNGQ MINGW64 ~/carpeta/IvanRazo_2807 (main)
$ nano firma.txt

Ivan Razo@LAPTOP-7J5DJNGQ MINGW64 ~/carpeta/IvanRazo_2807 (main)
$ cat firma.txt
hola.c 1
aacd5537888743cf434e47ce8d19b6d81733301d
hola.c 2
258774e776038435f35f5787ef60d84e83ffaa09

Ivan Razo@LAPTOP-7J5DJNGQ MINGW64 ~/carpeta/IvanRazo_2807 (main)
$
```

Se quita el cambio formado

```
MINGW64:/c/Users/Ivan Razo/carpeta/IvanRazo_2807
$ shasum -a 1 hola.c
aacd5537888743cf434e47ce8d19b6d81733301d *hola.c

Ivan Razo@LAPTOP-7J5DJNGQ MINGW64 ~/carpeta/IvanRazo_2807 (main)
$ nano firma.txt

Ivan Razo@LAPTOP-7J5DJNGQ MINGW64 ~/carpeta/IvanRazo_2807 (main)
$ cat firma.txt
hola.c 1
aacd5537888743cf434e47ce8d19b6d81733301d
hola.c 2
258774e776038435f35f5787ef60d84e83ffaa09
hola.c 3
aacd5537888743cf434e47ce8d19b6d81733301d

Ivan Razo@LAPTOP-7J5DJNGQ MINGW64 ~/carpeta/IvanRazo_2807 (main)
$
```

Generar un hash con el sha256

```
MINGW64:/c/Users/Ivan Razo/carpeta/IvanRazo_2807
aacd5537888743cf434e47ce8d19b6d81733301d
hola.c 2
258774e776038435f35f5787ef60d84e83ffaa09
hola.c 3
aacd5537888743cf434e47ce8d19b6d81733301d

Ivan Razo@LAPTOP-7J5DJNGQ MINGW64 ~/carpeta/IvanRazo_2807 (main)
$ ls
Carta_Prueba.txt  Tarea3.pdf  firma.txt  tarea2.txt
README.md         Tarea4.pdf  hola.c

Ivan Razo@LAPTOP-7J5DJNGQ MINGW64 ~/carpeta/IvanRazo_2807 (main)
$ shasum -a 256 hola.c
e550862e3ac32b5a2a7ebd706234d64add5f36896d9b5faf969e885e28e73e34 *hola.c

Ivan Razo@LAPTOP-7J5DJNGQ MINGW64 ~/carpeta/IvanRazo_2807 (main)
$ |
```

Se guarda el hash generado en un archivo .txt

```
MINGW64:/c/Users/Ivan Razo/carpeta/IvanRazo_2807
Ivan Razo@LAPTOP-7J5DJNGQ MINGW64 ~/carpeta/IvanRazo_2807 (main)
$ nano firma.txt

Ivan Razo@LAPTOP-7J5DJNGQ MINGW64 ~/carpeta/IvanRazo_2807 (main)
$ cat firma.txt
hola.c 1
aacd5537888743cf434e47ce8d19b6d81733301d
hola.c 2
258774e776038435f35f5787ef60d84e83ffaa09
hola.c 3
aacd5537888743cf434e47ce8d19b6d81733301d
hola.c 4
e550862e3ac32b5a2a7ebd706234d64add5f36896d9b5faf969e885e28e73e34

Ivan Razo@LAPTOP-7J5DJNGQ MINGW64 ~/carpeta/IvanRazo_2807 (main)
$
```

Comprobar la integridad de la firma

```
MINGW64:/c/Users/Ivan Razo/carpeta/IvanRazo_2807
Ivan Razo@LAPTOP-7J5DJNGQ MINGW64 ~/carpeta/IvanRazo_2807 (main)
$ shasum -a 256 hola.c e550862e3ac32b5a2a7ebd706234d64add5f36896d9b5faf969e885e28e73e34 hola.c
e550862e3ac32b5a2a7ebd706234d64add5f36896d9b5faf969e885e28e73e34 *hola.c
shasum: e550862e3ac32b5a2a7ebd706234d64add5f36896d9b5faf969e885e28e73e34: No such file or directory
e550862e3ac32b5a2a7ebd706234d64add5f36896d9b5faf969e885e28e73e34 *hola.c

Ivan Razo@LAPTOP-7J5DJNGQ MINGW64 ~/carpeta/IvanRazo_2807 (main)
$
```