- Hacer un cambio en el archivo con extensión .c y generar un hash con cambio y sin cambio y comprobarlo.


```
MINGW64:/c/Users/gusan/Documents/Github/Cyber1                    —    □    ×

gusan@DESKTOP-JH600KR MINGW64 ~/Documents/Github/Cyber1 (main)
$ pwd
/c/Users/gusan/Documents/Github/Cyber1

gusan@DESKTOP-JH600KR MINGW64 ~/Documents/Github/Cyber1 (main)
$
```

```
MINGW64:/c/Users/gusan/Documents/Github/Cyber1                    —    □    ×

  GNU nano 5.4                    Prueba.c                     Modified
// Tarea de firma
#include <conio.h>
#include <stdio.h>

int main (){
        printf("hello world");
        return 0;
}




^G Help       ^O Write Out ^W Where Is  ^K Cut        ^T Execute  ^C Location
^X Exit       ^R Read File ^\ Replace   ^U Paste      ^J Justify  ^_ Go To Line
```

```
MINGW64:/c/Users/gusan/Documents/Github/Cyber1                    —    □    ×

gusan@DESKTOP-JH600KR MINGW64 ~/Documents/Github/Cyber1 (main)
$ pwd
/c/Users/gusan/Documents/Github/Cyber1

gusan@DESKTOP-JH600KR MINGW64 ~/Documents/Github/Cyber1 (main)
$ nano Prueba.c

gusan@DESKTOP-JH600KR MINGW64 ~/Documents/Github/Cyber1 (main)
$ cat Prueba.c
// Tarea de firma
#include <conio.h>
#include <stdio.h>

int main (){
        printf("hello world");
        return 0;
}

gusan@DESKTOP-JH600KR MINGW64 ~/Documents/Github/Cyber1 (main)
$ shasum -a 1 Prueba.c
7dd91ee93f4ecde72bec0ce4d38aa4ac7e41a220 *Prueba.c

gusan@DESKTOP-JH600KR MINGW64 ~/Documents/Github/Cyber1 (main)
$ |
```
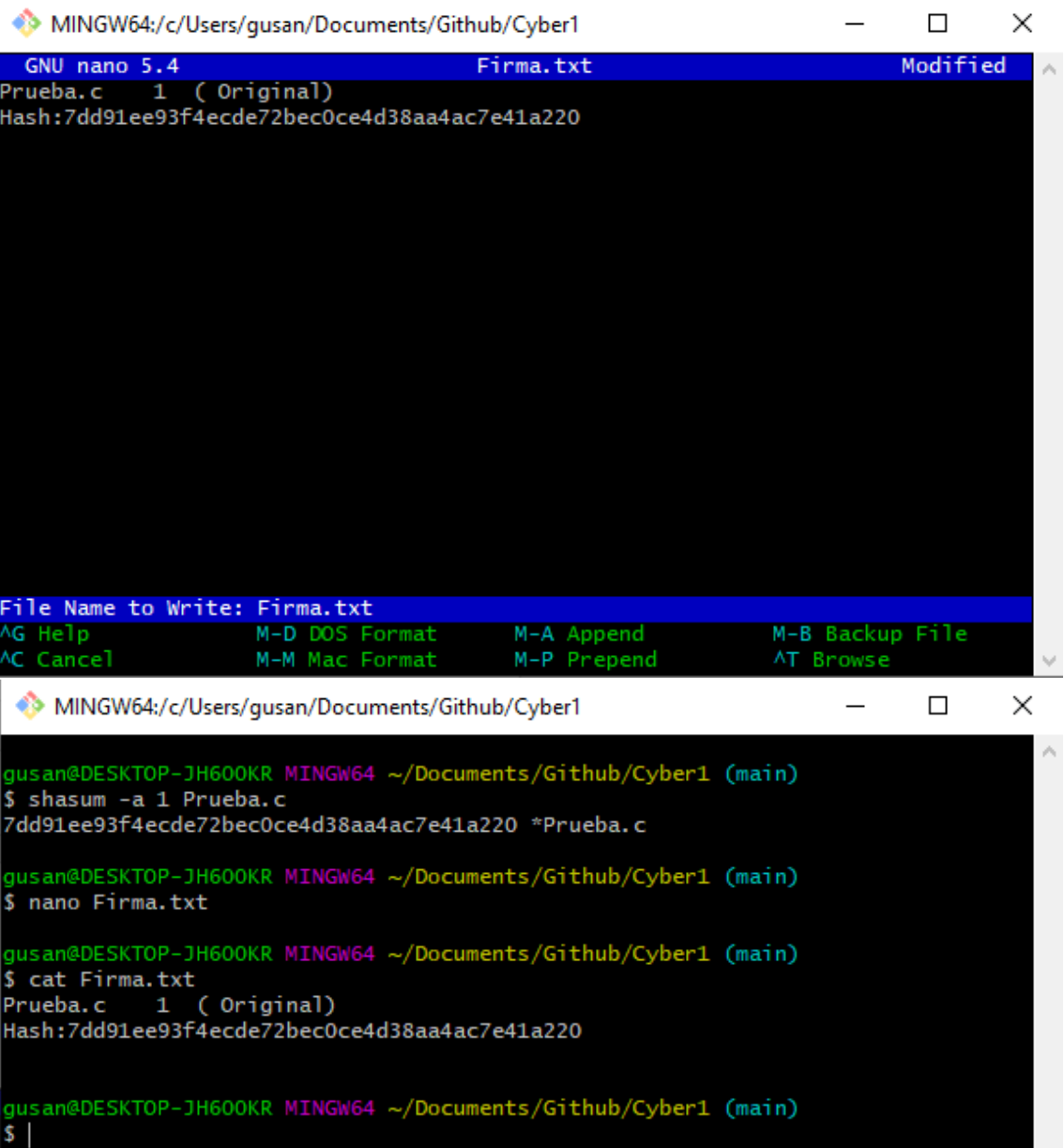
MINGW64:/c/Users/gusan/Documents/Github/Cyber1

```
  GNU nano 5.4                    Firma.txt                        Modified
Prueba.c    1  ( Original)
Hash:7dd91ee93f4ecde72bec0ce4d38aa4ac7e41a220
```

```
File Name to Write: Firma.txt
^G Help              M-D DOS Format       M-A Append        M-B Backup File
^C Cancel            M-M Mac Format       M-P Prepend       ^T Browse
```

MINGW64:/c/Users/gusan/Documents/Github/Cyber1

```
gusan@DESKTOP-JH600KR MINGW64 ~/Documents/Github/Cyber1 (main)
$ shasum -a 1 Prueba.c
7dd91ee93f4ecde72bec0ce4d38aa4ac7e41a220 *Prueba.c

gusan@DESKTOP-JH600KR MINGW64 ~/Documents/Github/Cyber1 (main)
$ nano Firma.txt

gusan@DESKTOP-JH600KR MINGW64 ~/Documents/Github/Cyber1 (main)
$ cat Firma.txt
Prueba.c    1  ( Original)
Hash:7dd91ee93f4ecde72bec0ce4d38aa4ac7e41a220


gusan@DESKTOP-JH600KR MINGW64 ~/Documents/Github/Cyber1 (main)
$ |
```

```
GNU nano 5.4                        Prueba.c                        Modified
// Tarea de firma
#include <conio.h>
#include <stdio.h>

int main (){
        printf("Hola mundo");
        return 0;
}




                              [ Cancelled ]
^G Help        ^O Write Out ^W Where Is  ^K Cut        ^T Execute   ^C Location
^X Exit        ^R Read File ^\ Replace   ^U Paste      ^J Justify   ^_ Go To Line
```

```
gusan@DESKTOP-JH600KR MINGW64 ~/Documents/Github/Cyber1 (main)
$ nano Prueba.c

gusan@DESKTOP-JH600KR MINGW64 ~/Documents/Github/Cyber1 (main)
$ cat Prueba.c
// Tarea de firma
#include <conio.h>
#include <stdio.h>

int main (){
        printf("Hola mundo");
        return 0;
}

gusan@DESKTOP-JH600KR MINGW64 ~/Documents/Github/Cyber1 (main)
$ shasum -a 1 Prueba.c
6fdd5939c6ec020bb957923a116f96f6f8bd95c2 *Prueba.c

gusan@DESKTOP-JH600KR MINGW64 ~/Documents/Github/Cyber1 (main)
$ |
```

```
  GNU nano 5.4                        Firma.txt                          Modified
Prueba.c    1   (Original)
Hash:7dd91ee93f4ecde72bec0ce4d38aa4ac7e41a220

Prueba.c    2   (Cambio)
Hash:6fdd5939c6ec020bb957923a116f96f6f8bd95c2
```

```
^G Help      ^O Write Out ^W Where Is  ^K Cut      ^T Execute  ^C Location
^X Exit      ^R Read File ^\ Replace   ^U Paste    ^J Justify  ^_ Go To Line
```

```
gusan@DESKTOP-JH600KR MINGW64 ~/Documents/Github/Cyber1 (main)
$ nano Firma.txt

gusan@DESKTOP-JH600KR MINGW64 ~/Documents/Github/Cyber1 (main)
$ cat Firma.txt
Prueba.c    1   (Original)
Hash:7dd91ee93f4ecde72bec0ce4d38aa4ac7e41a220

Prueba.c    2   (Cambio)
Hash:6fdd5939c6ec020bb957923a116f96f6f8bd95c2

gusan@DESKTOP-JH600KR MINGW64 ~/Documents/Github/Cyber1 (main)
$ |
```

```
gusan@DESKTOP-JH600KR MINGW64 ~/Documents/Github/Cyber1 (main)
$ nano Prueba.c

gusan@DESKTOP-JH600KR MINGW64 ~/Documents/Github/Cyber1 (main)
$ cat Prueba.c
// Tarea de firma
#include <conio.h>
#include <stdio.h>

int main (){
        printf("hello world");
        return 0;
}

gusan@DESKTOP-JH600KR MINGW64 ~/Documents/Github/Cyber1 (main)
$ shasum -a 1 Prueba.c
7dd91ee93f4ecde72bec0ce4d38aa4ac7e41a220 *Prueba.c

gusan@DESKTOP-JH600KR MINGW64 ~/Documents/Github/Cyber1 (main)
$ |
```

```
gusan@DESKTOP-JH600KR MINGW64 ~/Documents/Github/Cyber1 (main)
$ nano Firma.txt

gusan@DESKTOP-JH600KR MINGW64 ~/Documents/Github/Cyber1 (main)
$ cat Firma.txt
Prueba.c    1  (Original)
Hash:7dd91ee93f4ecde72bec0ce4d38aa4ac7e41a220

Prueba.c    2  (Cambio)
Hash:6fdd5939c6ec020bb957923a116f96f6f8bd95c2

Prueba.c    3   (Regreso al original)
Hash:7dd91ee93f4ecde72bec0ce4d38aa4ac7e41a220

gusan@DESKTOP-JH600KR MINGW64 ~/Documents/Github/Cyber1 (main)
$
```

```
gusan@DESKTOP-JH600KR MINGW64 ~/Documents/Github/Cyber1 (main)
$ shasum -a 256 Prueba.c
e285a57db05ffb4a639327d3c1cad5ae1cbe75379cc57608ebab21ac742aecb5 *Prueba.c

gusan@DESKTOP-JH600KR MINGW64 ~/Documents/Github/Cyber1 (main)
$
```

```
gusan@DESKTOP-JH600KR MINGW64 ~/Documents/Github/Cyber1 (main)
$ nano Firma.txt

gusan@DESKTOP-JH600KR MINGW64 ~/Documents/Github/Cyber1 (main)
$ cat Firma.txt
Prueba.c    1  (Original)
Hash:7dd91ee93f4ecde72bec0ce4d38aa4ac7e41a220

Prueba.c    2  (Cambio)
Hash:6fdd5939c6ec020bb957923a116f96f6f8bd95c2

Prueba.c    3   (Regreso al original)
Hash:7dd91ee93f4ecde72bec0ce4d38aa4ac7e41a220

Prueba.c    4   (sha256)
Hash:e285a57db05ffb4a639327d3c1cad5ae1cbe75379cc57608ebab21ac742aecb5

gusan@DESKTOP-JH600KR MINGW64 ~/Documents/Github/Cyber1 (main)
$
```

```
$ cat Firma.txt
Prueba.c    1  (Original)
Hash:7dd91ee93f4ecde72bec0ce4d38aa4ac7e41a220

Prueba.c    2  (Cambio)
Hash:6fdd5939c6ec020bb957923a116f96f6f8bd95c2

Prueba.c    3   (Regreso al original)
Hash:7dd91ee93f4ecde72bec0ce4d38aa4ac7e41a220

Prueba.c    4   (sha256)
Hash:e285a57db05ffb4a639327d3c1cad5ae1cbe75379cc57608ebab21ac742aecb5

gusan@DESKTOP-JH600KR MINGW64 ~/Documents/Github/Cyber1 (main)
$ shasum -a 256 Prueba.c e285a57db05ffb4a639327d3c1cad5ae1cbe75379cc57608ebab21ac742ae
cb5 Prueba.c clear
e285a57db05ffb4a639327d3c1cad5ae1cbe75379cc57608ebab21ac742aecb5 *Prueba.c
shasum: e285a57db05ffb4a639327d3c1cad5ae1cbe75379cc57608ebab21ac742aecb5: No such file
 or directory
e285a57db05ffb4a639327d3c1cad5ae1cbe75379cc57608ebab21ac742aecb5 *Prueba.c
shasum: clear: No such file or directory

gusan@DESKTOP-JH600KR MINGW64 ~/Documents/Github/Cyber1 (main)
$
```
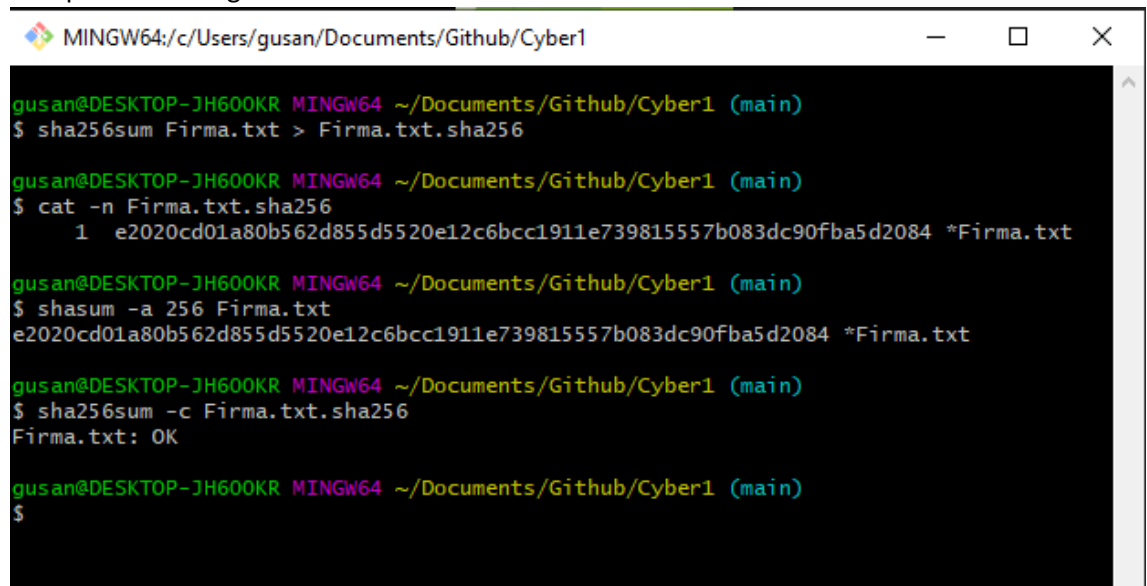
➕ Comprobar la integridad del archivo.


```
MINGW64:/c/Users/gusan/Documents/Github/Cyber1                    —    □    ×

gusan@DESKTOP-JH600KR MINGW64 ~/Documents/Github/Cyber1 (main)
$ sha256sum Firma.txt > Firma.txt.sha256

gusan@DESKTOP-JH600KR MINGW64 ~/Documents/Github/Cyber1 (main)
$ cat -n Firma.txt.sha256
     1  e2020cd01a80b562d855d5520e12c6bcc1911e739815557b083dc90fba5d2084 *Firma.txt

gusan@DESKTOP-JH600KR MINGW64 ~/Documents/Github/Cyber1 (main)
$ shasum -a 256 Firma.txt
e2020cd01a80b562d855d5520e12c6bcc1911e739815557b083dc90fba5d2084 *Firma.txt

gusan@DESKTOP-JH600KR MINGW64 ~/Documents/Github/Cyber1 (main)
$ sha256sum -c Firma.txt.sha256
Firma.txt: OK

gusan@DESKTOP-JH600KR MINGW64 ~/Documents/Github/Cyber1 (main)
$
```

➕ Anexar capturas de pantalla, así como sus archivos.
➕ Nota: la creación modificación todo lo relacionado con el ejerció es por medio de la terminal