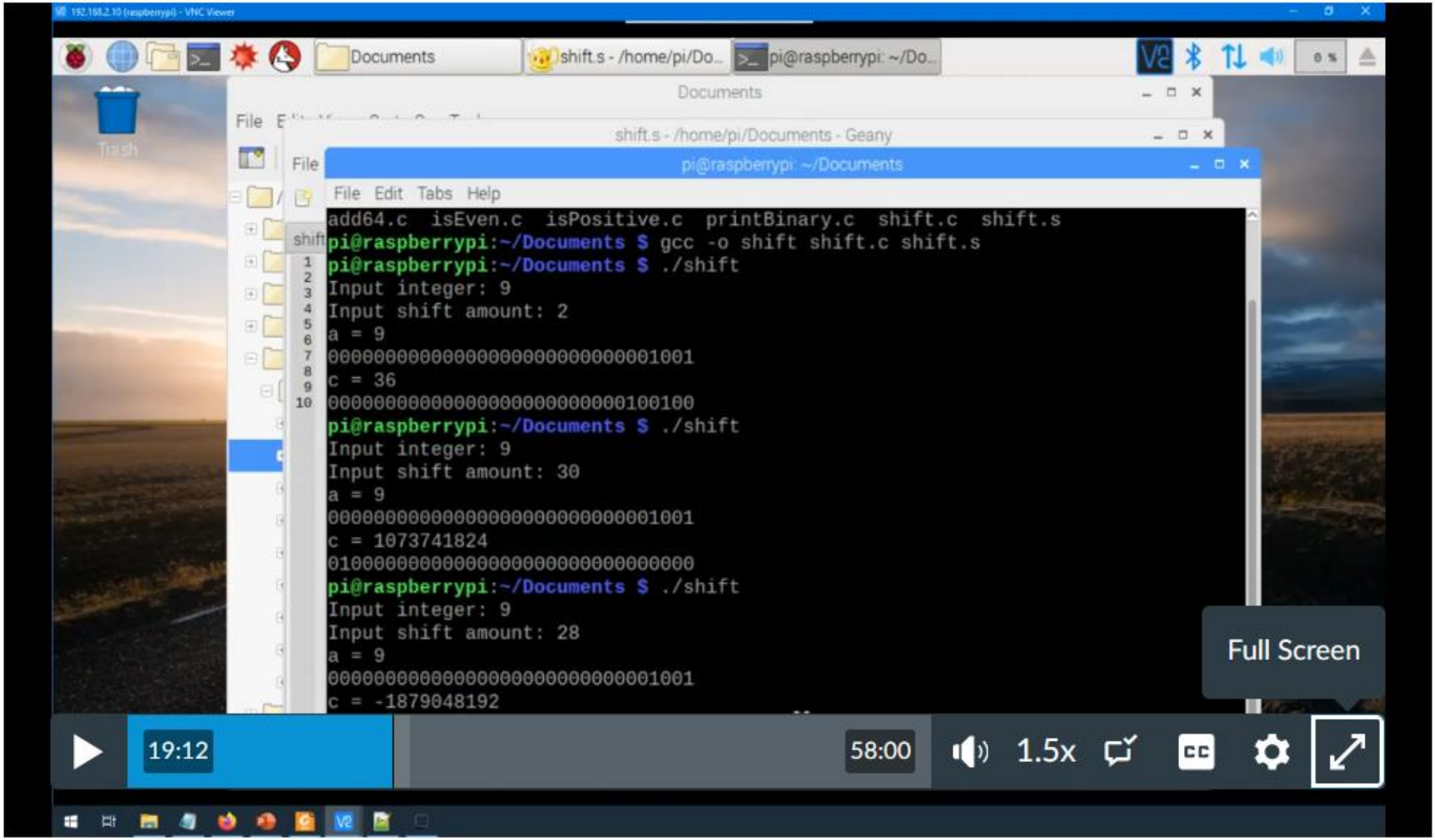
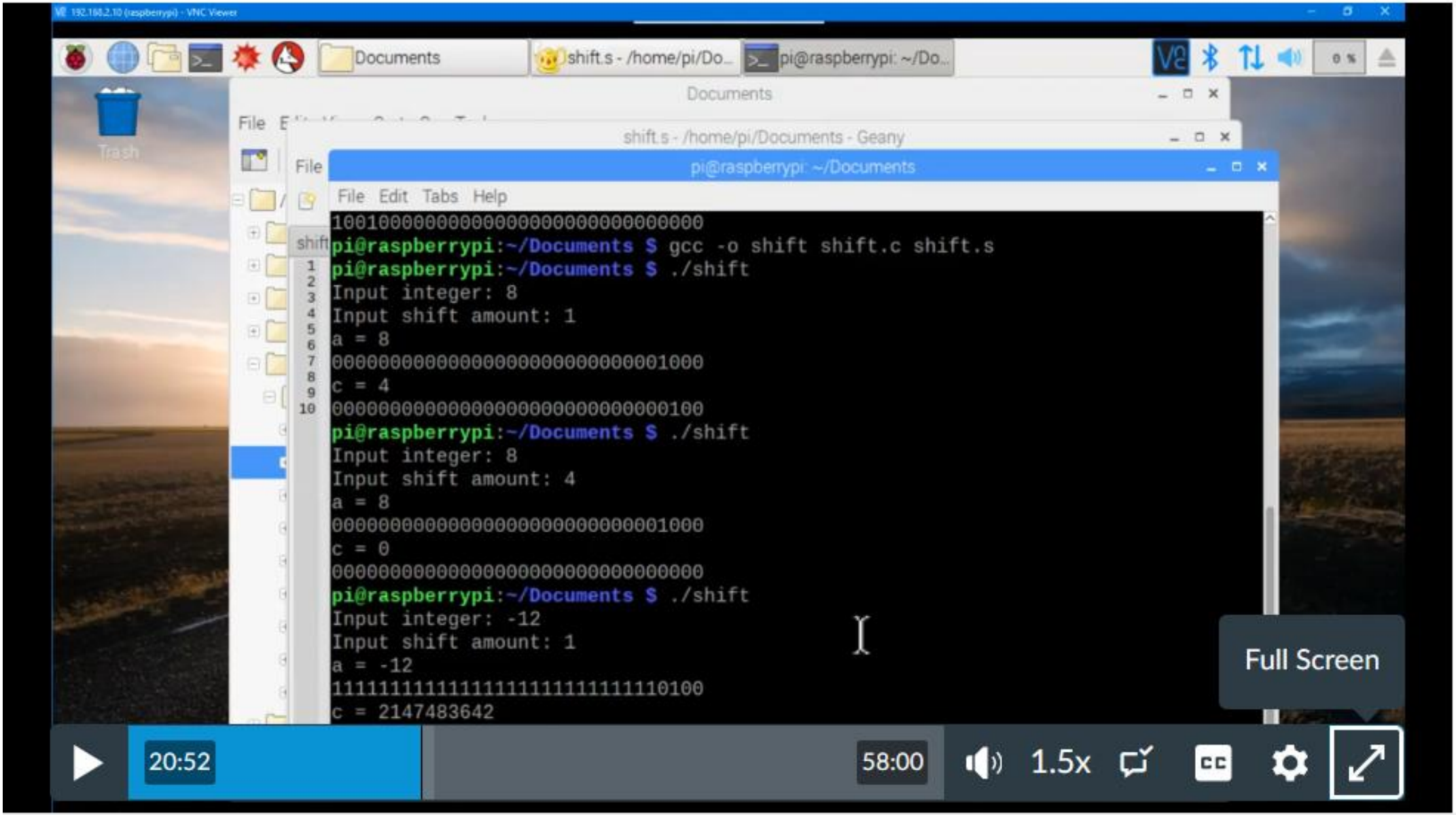

Documents
shift.s - /home/pi/Do...
pi@raspberrypi: ~/Do...
Documents
shift.s - /home/pi/Documents - Geany
pi@raspberrypi: ~/Documents
File Edit Tabs Help
add64.c isEven.c isPositive.c printBinary.c shift.c shift.s
pi@raspberrypi:~/Documents $ gcc -o shift shift.c shift.s
pi@raspberrypi:~/Documents $ ./shift
Input integer: 9
Input shift amount: 2
a = 9
00000000000000000000000000001001
c = 36
00000000000000000000000000100100
pi@raspberrypi:~/Documents $ ./shift
Input integer: 9
Input shift amount: 30
a = 9
00000000000000000000000000001001
c = 1073741824
01000000000000000000000000000000
pi@raspberrypi:~/Documents $ ./shift
Input integer: 9
Input shift amount: 28
a = 9
00000000000000000000000000001001
c = -1879048192
Full Screen
19:12
58:00
1.5x
CC

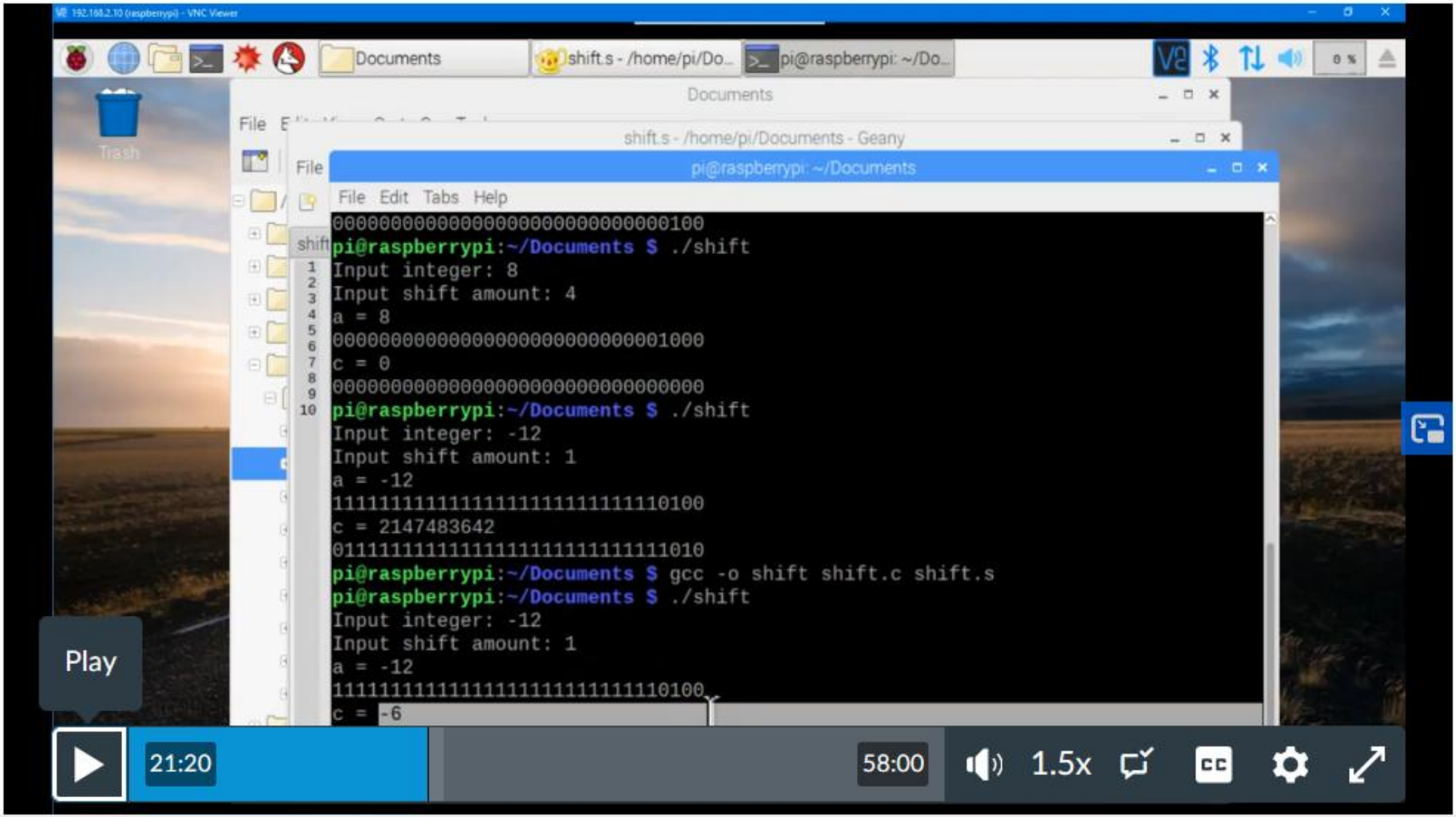
4. Shifts, Masks, 64-Bit Values

Please be cautious with your audio: the pre-set volume levels in Canvas Studio are very loud.



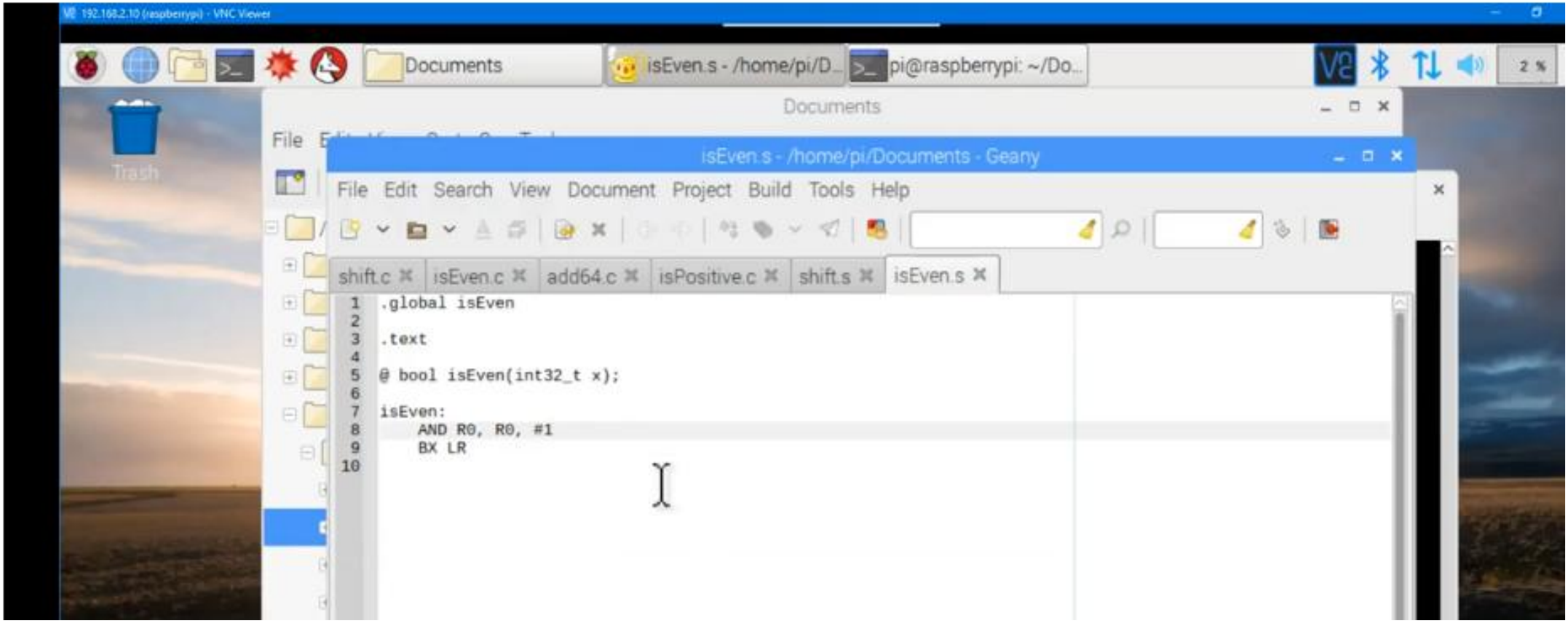
4. Shifts, Masks, 64-Bit Values

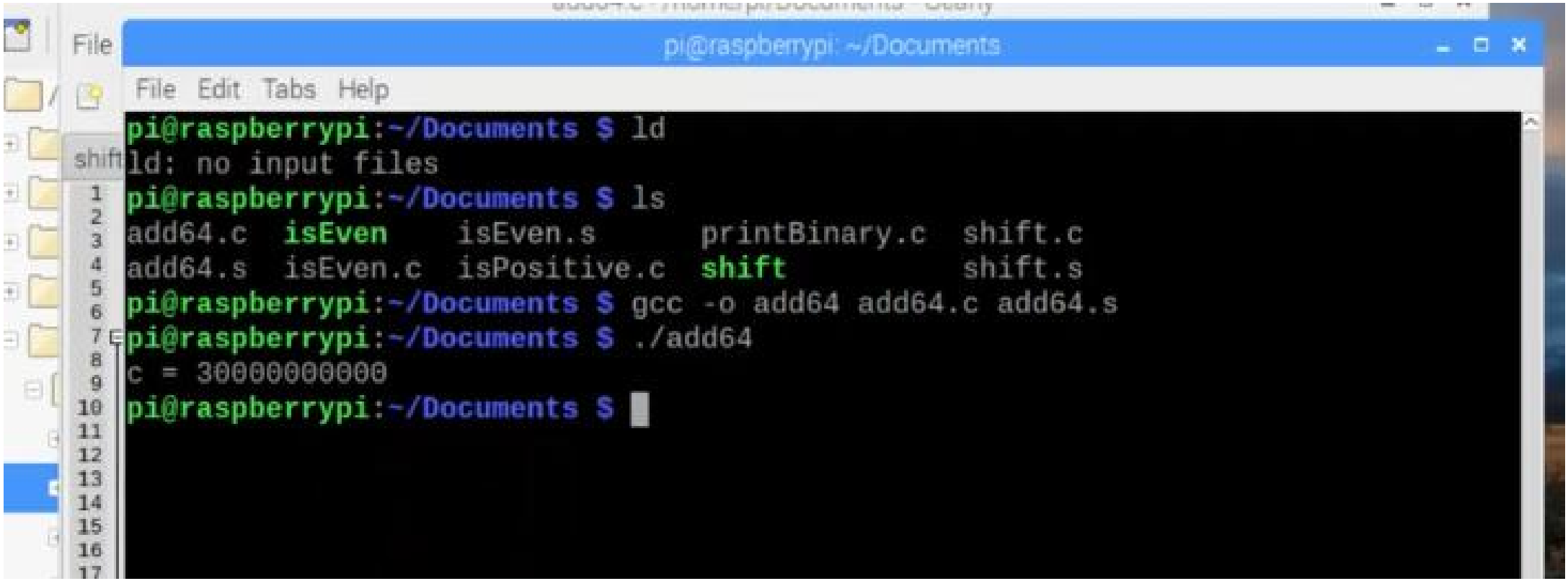
Please be cautious with your audio: the pre-set volume levels in Canvas Studio are very loud.

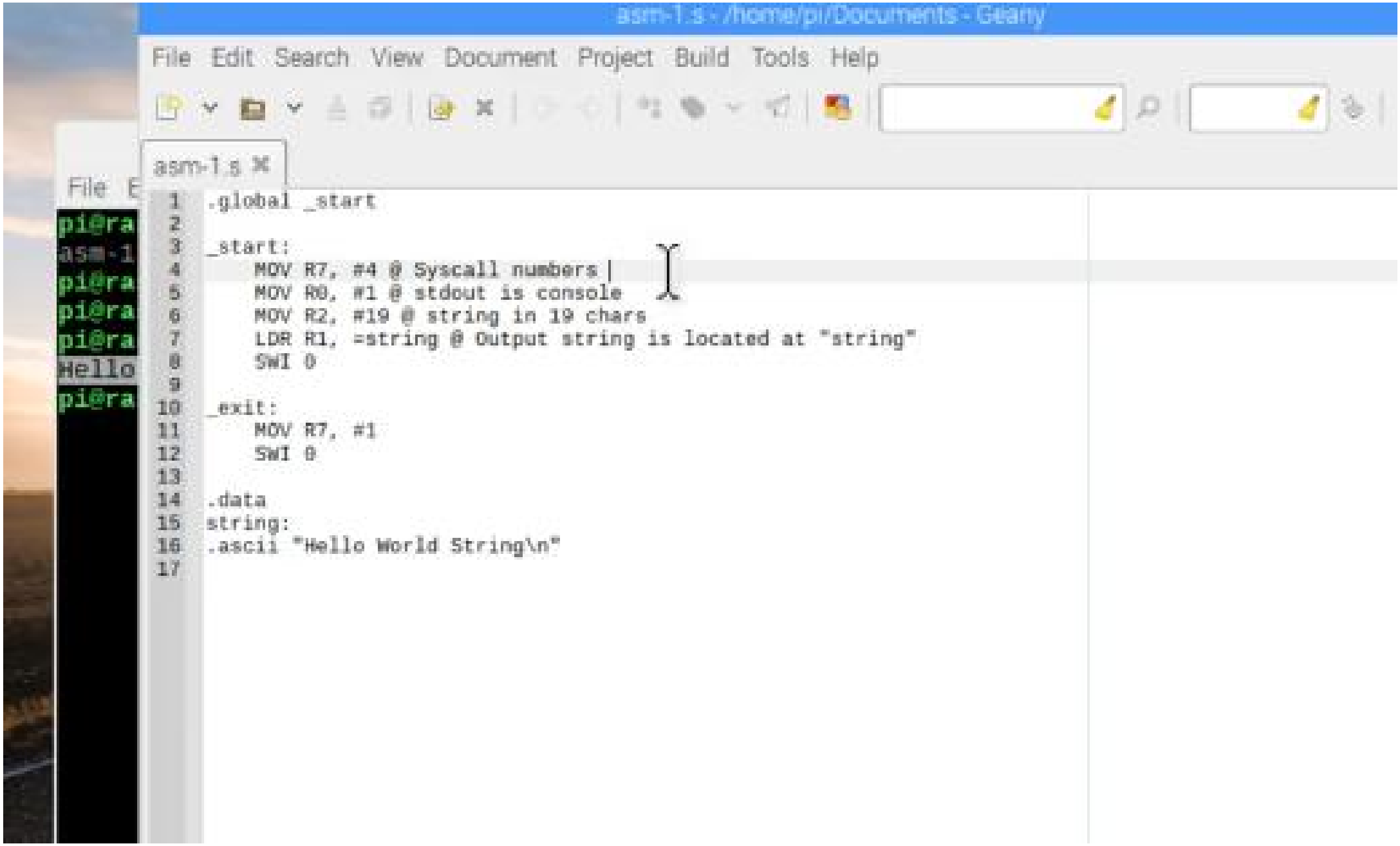


4. Shifts, Masks, 64-Bit Values

Please be cautious with your audio: the pre-set volume levels in Canvas Studio are very loud.



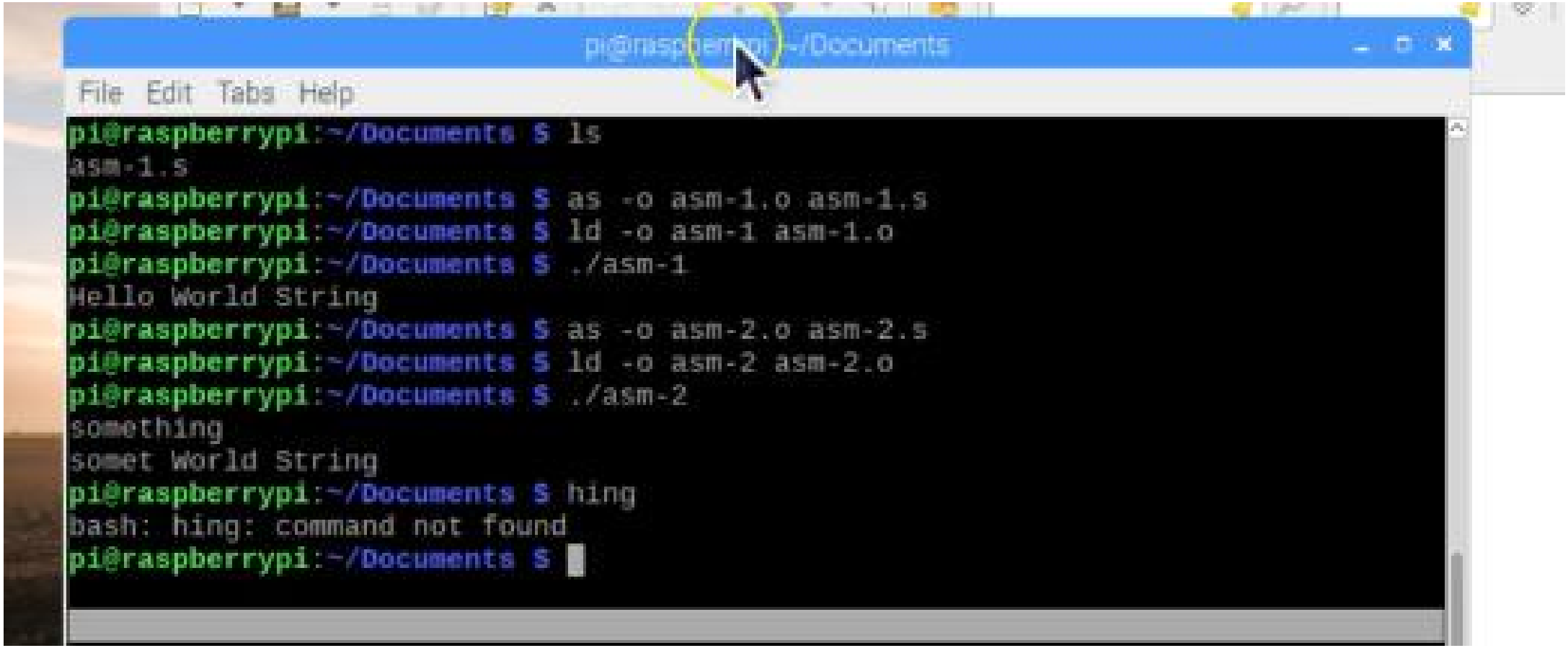

File
pi@raspberrypi: ~/Documents
File Edit Tabs Help
pi@raspberrypi:~/Documents $ ld
ld: no input files
pi@raspberrypi:~/Documents $ ls
add64.c isEven isEven.s printBinary.c shift.c
add64.s isEven.c isPositive.c shift shift.s
pi@raspberrypi:~/Documents $ gcc -o add64 add64.c add64.s
pi@raspberrypi:~/Documents $ ./add64
c = 30000000000
pi@raspberrypi:~/Documents $


asm-1.s - /home/pi/Documents - Geany
File Edit Search View Document Project Build Tools Help
asm-1.s
1 .global _start
2
3 _start:
4 MOV R7, #4 @ Syscall numbers
5 MOV R0, #1 @ stdout is console
6 MOV R2, #19 @ string in 19 chars
7 LDR R1, =string @ Output string is located at "string"
8 SWI 0
9
10 _exit:
11 MOV R7, #1
12 SWI 0
13
14 .data
15 string:
16 .ascii "Hello World String\n"
17
pi@ra
asm-1
pi@ra
pi@ra
pi@ra
Hello
pi@ra

File Edit Search View Document Project Build Tools Help

asm-1.s asm-2.s

```
1  .global _start
2
3  _start:
4  _read:
5      MOV R7, #3 @ Syscall - read data
6      MOV R0, #0 @ stdin - keyboard
7      MOV R2, #5 @ read in five bytes
8      LDR R1, =string
9      SWI 0
10
11 _write:
12     MOV R7, #4 @ Syscall numbers
13     MOV R0, #1 @ stdout is console
14     MOV R2, #19 @ string in 19 chars
15     LDR R1, =string @ Output string is located at "string"
16     SWI 0
17
18 _exit:
19     MOV R7, #1
20     SWI 0
21
22 .data
23 string:
24 .ascii "Hello World String\n"
25
```


pi@raspberrypi:~/Documents
File Edit Tabs Help
pi@raspberrypi:~/Documents $ ls
asm-1.s
pi@raspberrypi:~/Documents $ as -o asm-1.o asm-1.s
pi@raspberrypi:~/Documents $ ld -o asm-1 asm-1.o
pi@raspberrypi:~/Documents $ ./asm-1
Hello World String
pi@raspberrypi:~/Documents $ as -o asm-2.o asm-2.s
pi@raspberrypi:~/Documents $ ld -o asm-2 asm-2.o
pi@raspberrypi:~/Documents $ ./asm-2
something
somet World String
pi@raspberrypi:~/Documents $ hing
bash: hing: command not found
pi@raspberrypi:~/Documents $