

Національний технічний університет України
«Київський політехнічний інститут імені Ігоря Сікорського»
Факультет інформатики та обчислювальної техніки
Кафедра обчислювальної техніки

Архітектура комп'ютерів-2. Процесори
Лабораторна робота №4

Виконав:

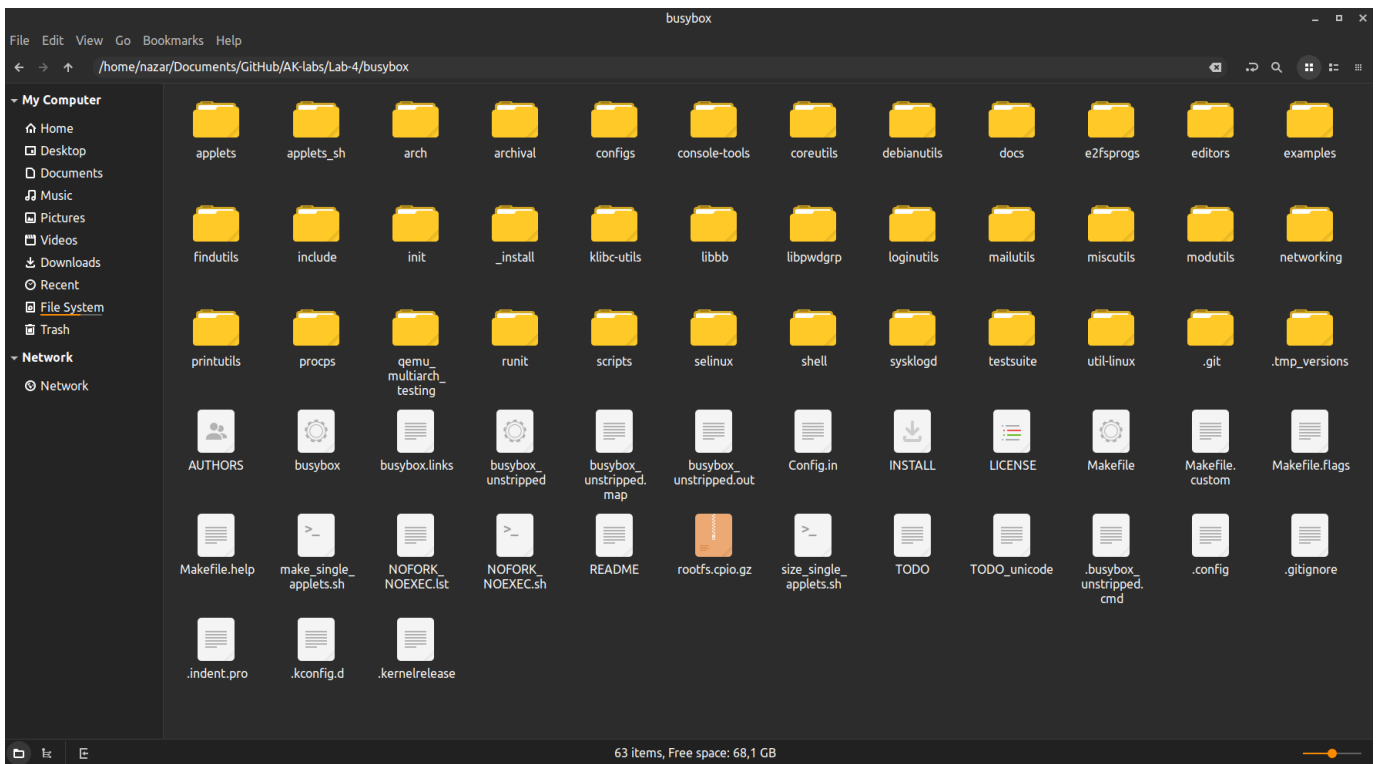
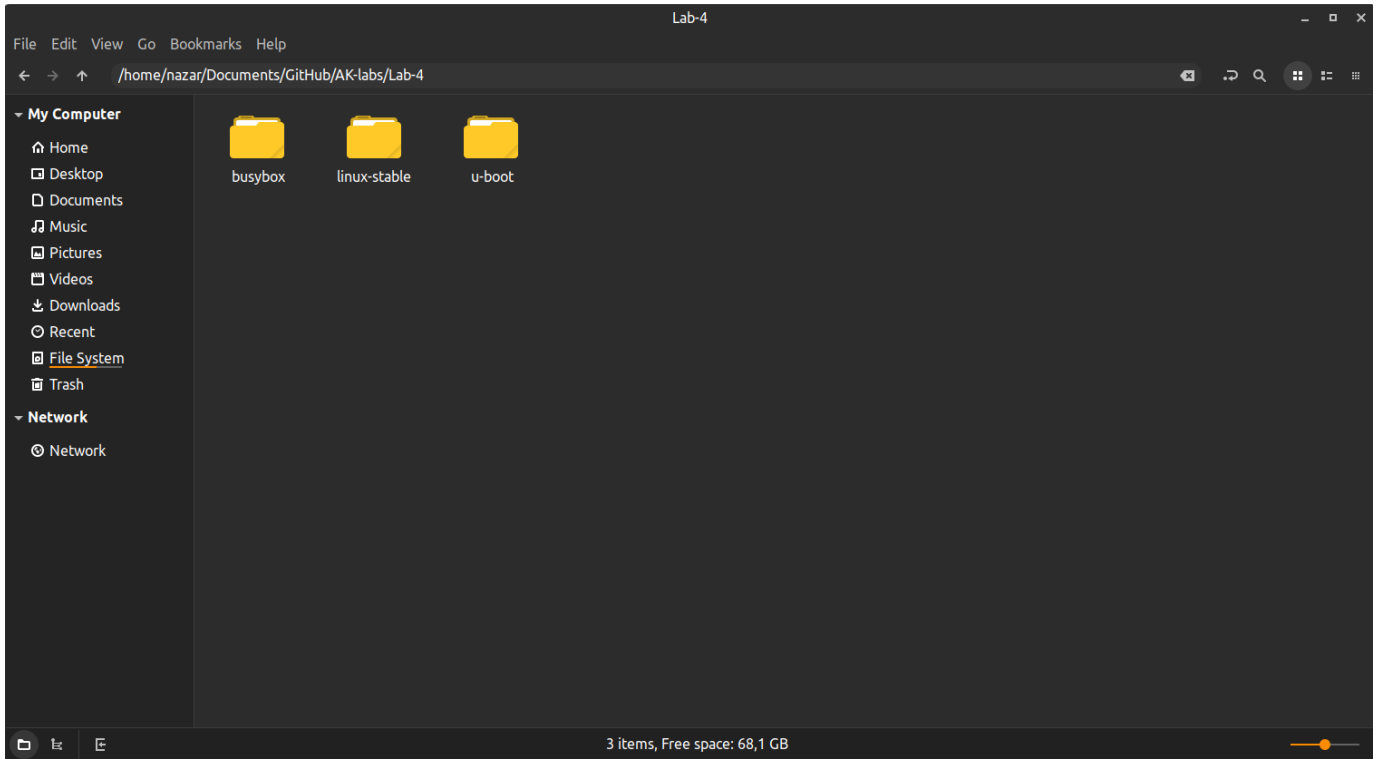
студент групи ІВ-91

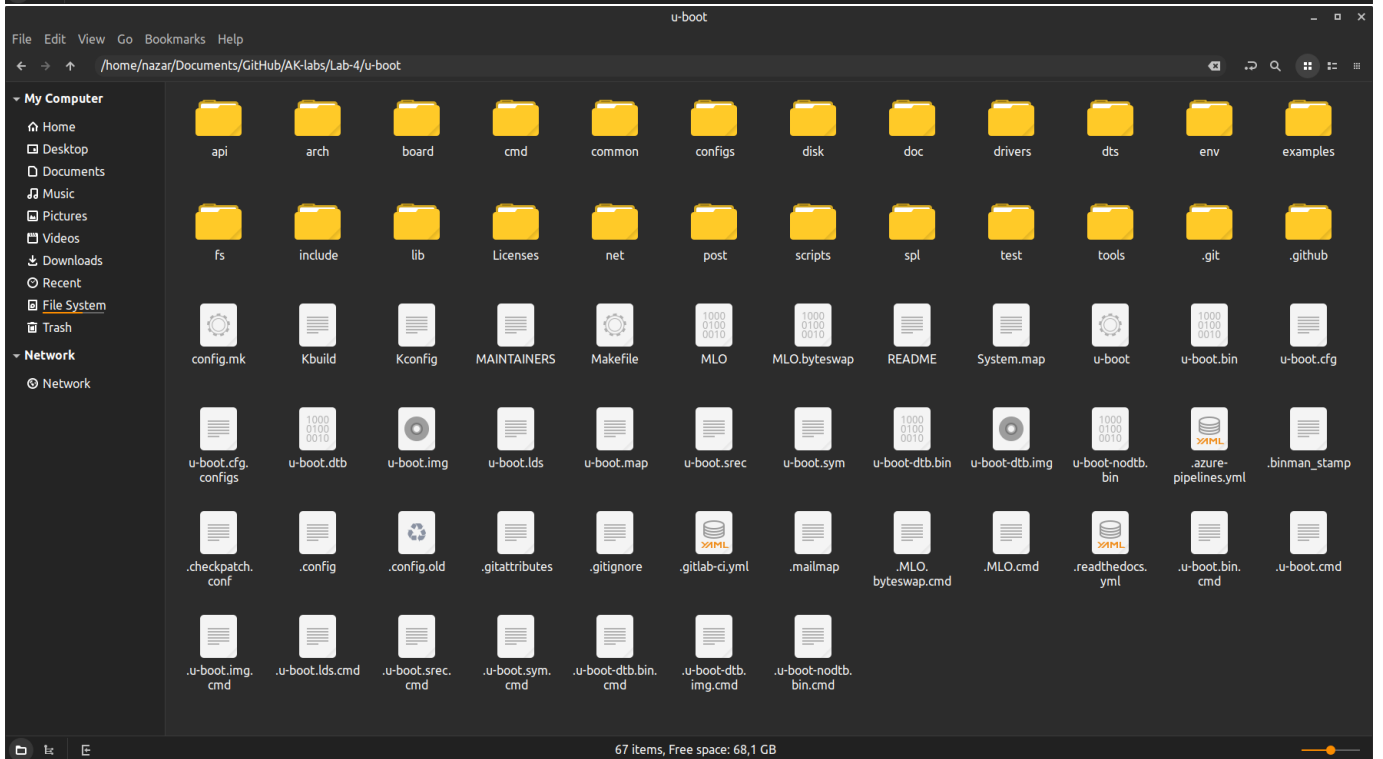
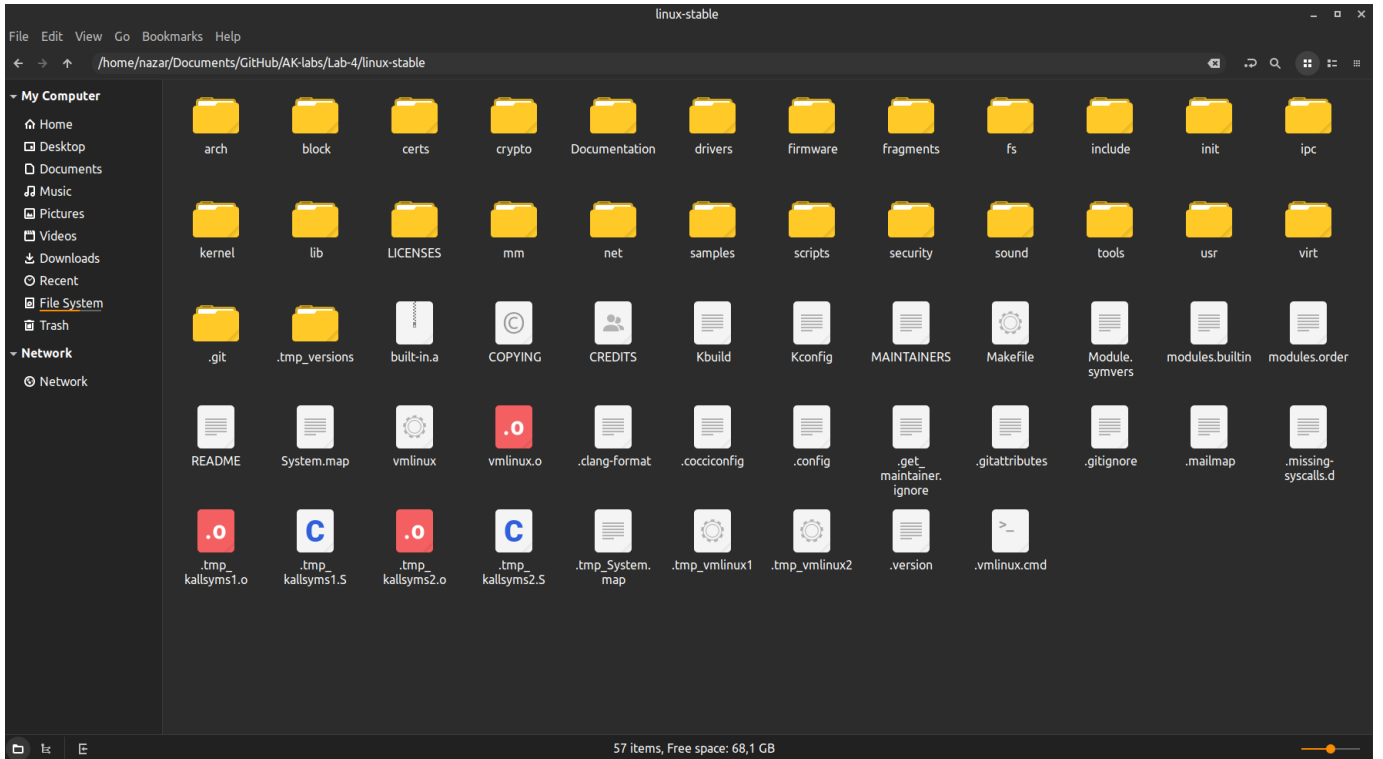
Чопик Назар

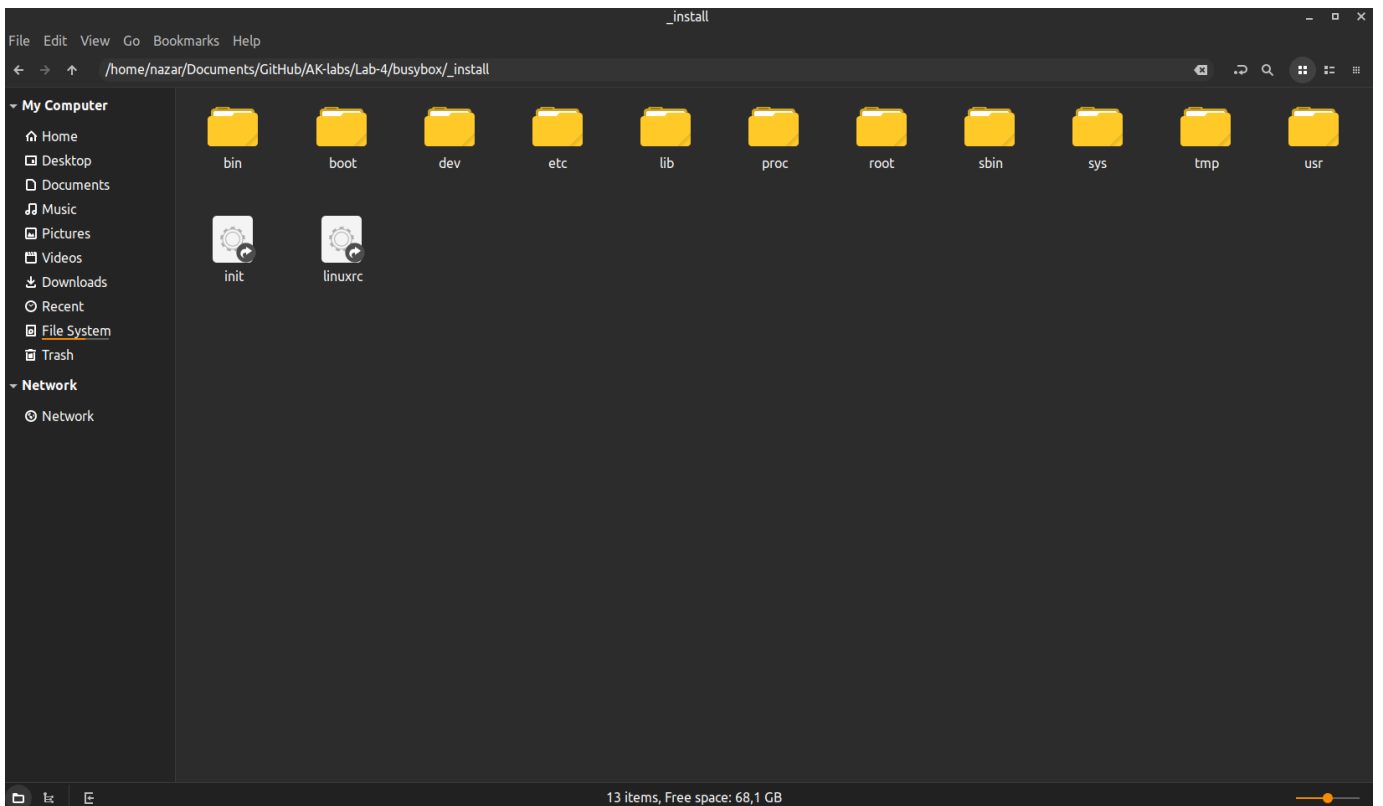
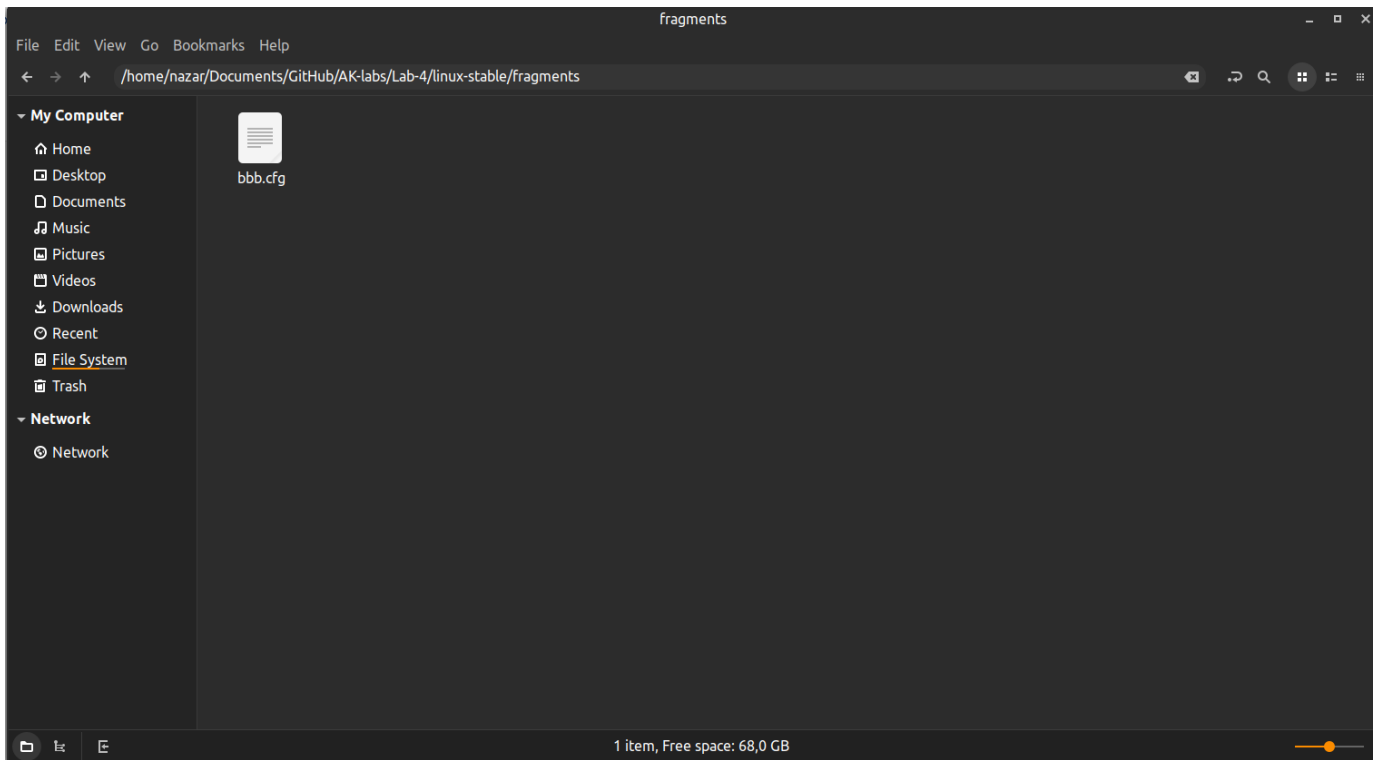
Перевірив:

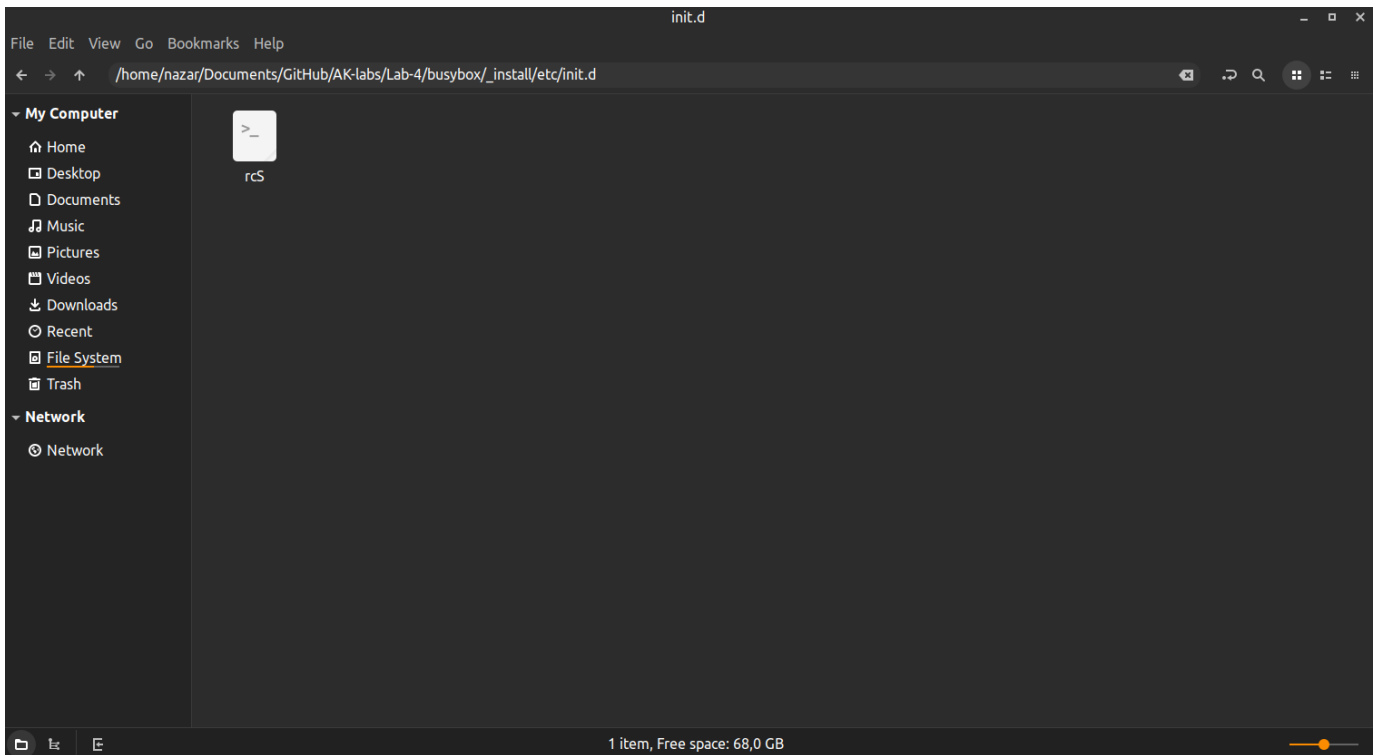
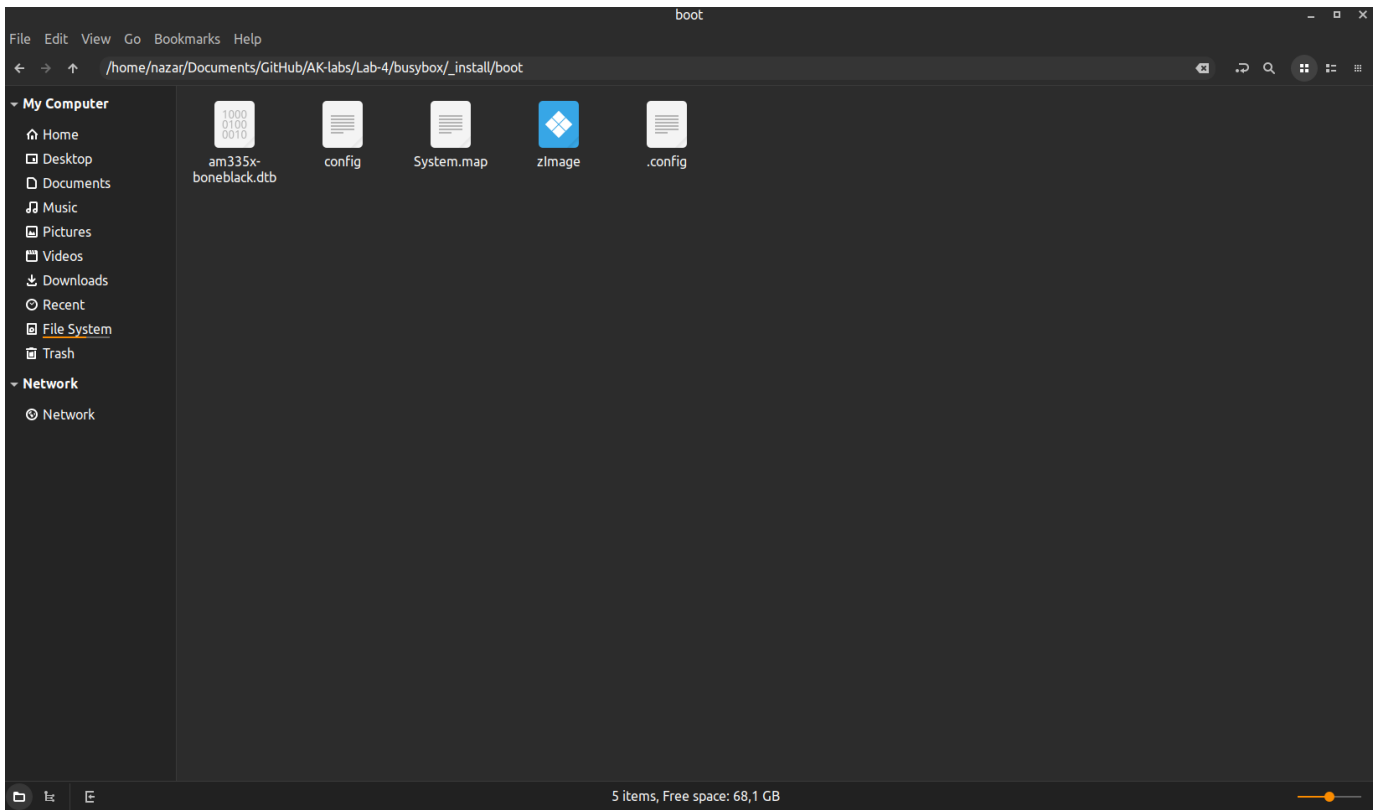
пос. Нікольський С. С.

Київ 2021 р.









```
nazar@nazar: ~/Documents/GitHub/AK-labs/Lab-4/busybox
File Edit View Search Terminal Help
[ 2.632812] Run /init as init process

Please press Enter to activate this console.
/ # uname -a
Linux (none) 4.19.218 #1 SMP Sat Nov 27 13:53:13 EET 2021 armv7l GNU/Linux
/ # ls -l
total 0
drwxrwxr-x 2 1000 1000 0 Nov 27 13:38 bin
drwxrwxr-x 2 1000 1000 0 Nov 27 13:59 boot
drwxrwxr-x 3 1000 1000 0 Nov 27 14:06 dev
drwxrwxr-x 3 1000 1000 0 Nov 27 14:04 etc
lrwxrwxrwx 1 1000 1000 11 Nov 27 13:42 init -> bin/busybox
drwxrwxr-x 3 1000 1000 0 Nov 27 14:03 lib
lrwxrwxrwx 1 1000 1000 11 Nov 27 13:38 linuxrc -> bin/busybox
dr-xr-xr-x 91 root root 0 Jan 1 1970 proc
drwxrwxr-x 2 1000 1000 0 Nov 27 13:39 root
drwxrwxr-x 2 1000 1000 0 Nov 27 13:38 sbin
dr-xr-xr-x 12 root root 0 Nov 27 14:06 sys
drwxrwxr-x 2 1000 1000 0 Nov 27 13:39 tmp
drwxrwxr-x 4 1000 1000 0 Nov 27 13:38 usr
/ # dmesg | grep init
[ 0.000000] random: get_random_bytes called from start kernel+0x9c/0x480 with crng init=0
[ 0.000000] Memory: 406376K/524288K available (12288K kernel code, 1619K rwdara, 4784K rodata,
2048K init, 393K bss, 52376K reserved, 65536K cma-reserved, 0K highmem)
[ 0.000000] .init : 0x(ptrval) - 0x(ptrval) (2048 kB)
[ 0.094580] devtmpfs: initialized
[ 0.123171] pinctrl core: initialized pinctrl subsystem
[ 0.258693] SCSI subsystem initialized
[ 0.422701] Trying to unpack rootfs image as initramfs...
[ 2.193773] Freeing initrd memory: 25144K
[ 2.336449] SuperH (H)SCI(F) driver initialized
[ 2.337772] msm_serial: driver initialized
[ 2.338446] STMicroelectronics ASC driver initialized
[ 2.339806] STM32 USART driver initialized
[ 2.632812] Run /init as init process
```

```
nazar@nazar: ~/Documents/GitHub/AK-labs/Lab-4/busybox
File Edit View Search Terminal Help
/ # busybox --help | head -15
BusyBox v1.34.1 (2021-11-27 15:37:55 EET) multi-call binary.
BusyBox is copyrighted by many authors between 1998-2015.
Licensed under GPLv2. See source distribution for detailed
copyright notices.

Usage: busybox [function [arguments]...]
or: busybox --list[-full]
or: busybox --show SCRIPT
or: busybox --install [-s] [DIR]
or: function [arguments]...

BusyBox is a multi-call binary that combines many common Unix
utilities into a single executable. Most people will create a
link to busybox for each function they wish to use and BusyBox
will act like whatever it was invoked as.

/ #
```