ESERCIZIO SHELL LINUX

Nella prima parte dell'esercizio ci viene richiesto di creare le directory necessarie per lo svolgimento. Ho commesso un errore di distrazione e ho creato *"relazione.doc"* in *"/studenti/nicola/lavoro* invece di */studenti/nicola/scuola"*.

In seguito ho commesso qualche errore di sintassi per andare avanti nell'esercizio e completare la creazione delle restanti sottodirectory.

Procedo poi a spostarmi direttamente da una cartella all'altra ed eseguire la copia del file *"compito.doc"*.

```
┌──(pireddone㉿kali)-[~]
└─$ cd studenti/nicola/lavoro

┌──(pireddone㉿kali)-[~/studenti/nicola/lavoro]
└─$ cd../studenti/anna/casa
zsh: no such file or directory: cd../studenti/anna/casa

┌──(pireddone㉿kali)-[~/studenti/nicola/lavoro]
└─$ cd ~/studenti/anna/casa

┌──(pireddone㉿kali)-[~/studenti/anna/casa]
└─$ cd ~

┌──(pireddone㉿kali)-[~]
└─$ cd /studenti/nicola/lavoro
cd: no such file or directory: /studenti/nicola/lavoro

┌──(pireddone㉿kali)-[~]
└─$ cd studenti/nicola/scuola

┌──(pireddone㉿kali)-[~/studenti/nicola/scuola]
└─$ cp compito.doc .
cp: 'compito.doc' and './compito.doc' are the same file

┌──(pireddone㉿kali)-[~/studenti/nicola/scuola]
└─$ cp compito.doc
cp: missing destination file operand after 'compito.doc'
Try 'cp --help' for more information.

┌──(pireddone㉿kali)-[~/studenti/nicola/scuola]
└─$ cd ~

┌──(pireddone㉿kali)-[~]
└─$ cp ../scuola/compito.doc .
cp: cannot stat '../scuola/compito.doc': No such file or directory

┌──(pireddone㉿kali)-[~]
└─$ cd studenti/nicola/lavoro

┌──(pireddone㉿kali)-[~/studenti/nicola/lavoro]
└─$ cp ../scuola/compito.doc .
```

Procedo a spostare il file *"relazione.doc" da "/studenti/nicola/lavoro"* a *"studenti/anna/casa"*, rimuovo la cartella *tmp* e procedo alla creazione del file *"pippo.txt"* in *"studenti/nicola/lavoro"*.

```
┌──(pireddone㉿kali)-[~]
└─$ cd studenti/nicola/scuola

┌──(pireddone㉿kali)-[~/studenti/nicola/scuola]
└─$ mv relazione.doc ~/studenti/anna/casa
mv: cannot stat 'relazione.doc': No such file or directory

┌──(pireddone㉿kali)-[~/studenti/nicola/scuola]
└─$ cd

┌──(pireddone㉿kali)-[~]
└─$ cd studenti/nicola/lavoro

┌──(pireddone㉿kali)-[~/studenti/nicola/lavoro]
└─$ mv relazione.doc ~/studenti/anna/casa

┌──(pireddone㉿kali)-[~/studenti/nicola/lavoro]
└─$ cd ~

┌──(pireddone㉿kali)-[~]
└─$ rm -r ~tmp
rm: cannot remove '~tmp': No such file or directory

┌──(pireddone㉿kali)-[~]
└─$ cd temp
cd: no such file or directory: temp

┌──(pireddone㉿kali)-[~]
└─$ cd tmp

┌──(pireddone㉿kali)-[~/tmp]
└─$ rm -r ~/tmp

┌──(pireddone㉿kali)-[~/tmp]
└─$ cd ~

┌──(pireddone㉿kali)-[~]
└─$ cd studenti/nicola/lavoro

┌──(pireddone㉿kali)-[~/studenti/nicola/lavoro]
└─$ touch pippo.txt
```
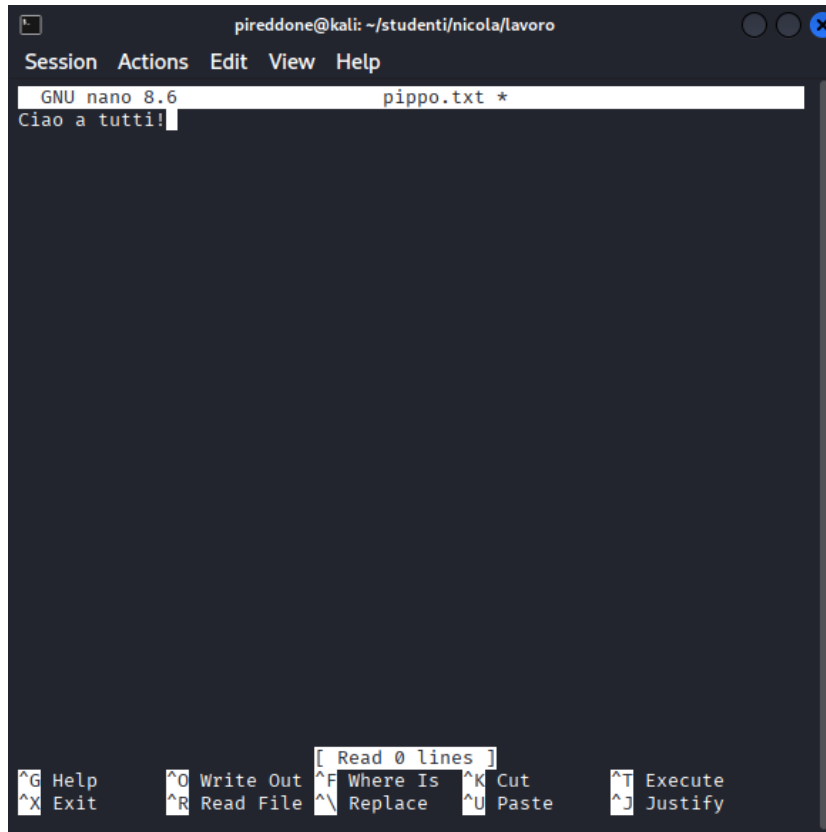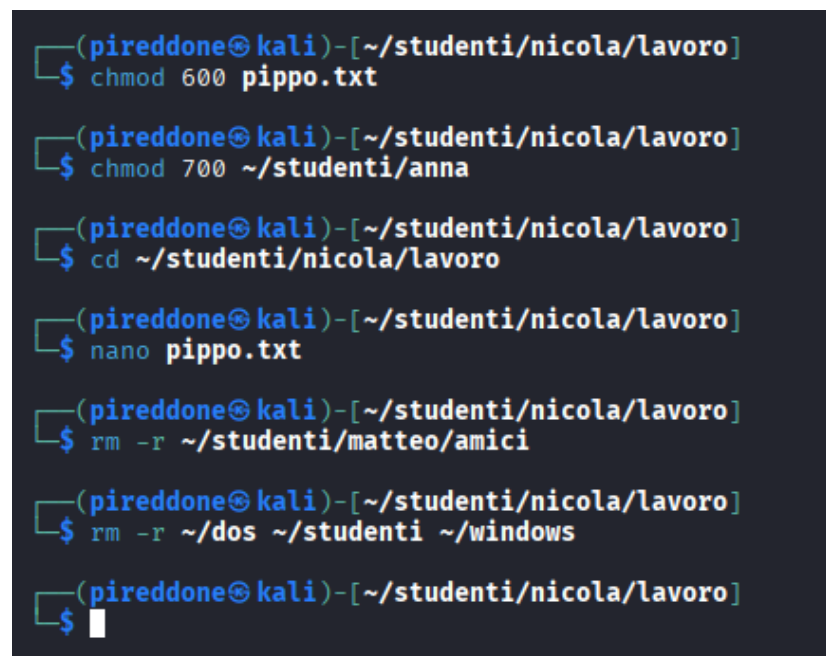
Vado a concludere l'esercizio rendendo il file *"pippo.txt"* disponibile solo per il proprietario con un *"chmod 600"* e andando a nascondere la cartella *"anna"* rendendola visibile solo al proprietario con un *"chmod 700"*. Procedo inoltre a visualizzare e modificare il file *"pippo.txt"* con *"nano"* e rimuovo tutte le directory create per l'esercizio"

PARTE FACOLTATIVA

Nella parte facoltativa la traccia ci chiede innanzitutto di leggere i manuali di *job, ps e kill*. Non ho avuto problemi con *ps e kill*, ma non mi ha aperto il manuale di *job/jobs*.

In seguito ho aperto un altro tab di terminale e ho lanciato *nano pippo,* nell'altra scheda ho lanciato *ps aux* per vedere i processi attivi, ho individuato il PID di *nano pippo* e l'ho terminato.

Lancio firefox da terminale, deduco che dia problemi poiché non sono connesso ad internet con la MV.


```
  ┌──(pireddone㊜kali)-[~]
  └─$ firefox &
[1] 46030

  ┌──(pireddone㊜kali)-[~]
  └─$ [Parent 46030, Main Thread] WARNING: unable to open file '/etc/dconf/db/local': Failed to open file "/etc/dconf/db/local": open() failed: N
o such file or directory; expect degraded performance: 'glib warning', file toolkit/xre/nsSigHandlers.cpp:201

(firefox-esr:46030): dconf-WARNING **: 12:04:26.077: unable to open file '/etc/dconf/db/local': Failed to open file "/etc/dconf/db/local": open
() failed: No such file or directory; expect degraded performance
```

Termino firefox.

```
  ┌──(pireddone㊜kali)-[~]
  └─$ pkill firefox

  ┌──(pireddone㊜kali)-[~]
  └─$
```

Provo i comandi w, who e whoami e vedo che cosa mi risponde a video nel terminale.

```
  ┌──(pireddone㊜kali)-[~]
  └─$ w
 12:06:20 up  1:31,  1 user,  load average: 0.57, 0.69, 0.56
USER     TTY      FROM             LOGIN@   IDLE   JCPU   PCPU  WHAT
pireddon -                        10:35            0.00s  0.03s lightdm --session-child 13 24

  ┌──(pireddone㊜kali)-[~]
  └─$ who
pireddone seat0         2025-10-28 10:35 (:0)

  ┌──(pireddone㊜kali)-[~]
  └─$ who am i

  ┌──(pireddone㊜kali)-[~]
  └─$ whoami
pireddone

  ┌──(pireddone㊜kali)-[~]
  └─$
```

Non conoscendo il comando per verificare quanto spazio stiamo utilizzando sul disco, faccio una ricerca su internet e trovo il comando *df* (disk-free), utilizzo anche chatGPT, che mi consiglia di aggiungere -h (human readable) poiché altrimenti mi darebbe valori in byte invece di MB/GB/TB.

```
  ┌──(pireddone㊜kali)-[~]
  └─$ df -h
Filesystem      Size  Used Avail Use% Mounted on
udev            921M     0  921M   0% /dev
tmpfs           198M 1008K  197M   1% /run
/dev/sda1        47G   17G   28G  38% /
tmpfs           987M  4.0K  987M   1% /dev/shm
tmpfs           1.0M     0  1.0M   0% /run/credentials/systemd-journald.service
tmpfs           987M  444K  987M   1% /tmp
tmpfs           1.0M     0  1.0M   0% /run/credentials/getty@tty1.service
tmpfs           198M  104K  198M   1% /run/user/1000

  ┌──(pireddone㊜kali)-[~]
  └─$
```

INSTALLAZIONE VISUAL STUDIO CODE E GDB SU KALI

```
┌──(pireddone㊀kali)-[~/Downloads]
└─$ sudo dpkg -i code_1.105.1-1760482543_amd64.deb
[sudo] password for pireddone:
```

Package configuration

┤ Configuring code ├

The installer would like to add the Microsoft repository and
signing key to update VS Code through apt.

Add Microsoft apt repository for Visual Studio Code?

        <Yes>   <No>
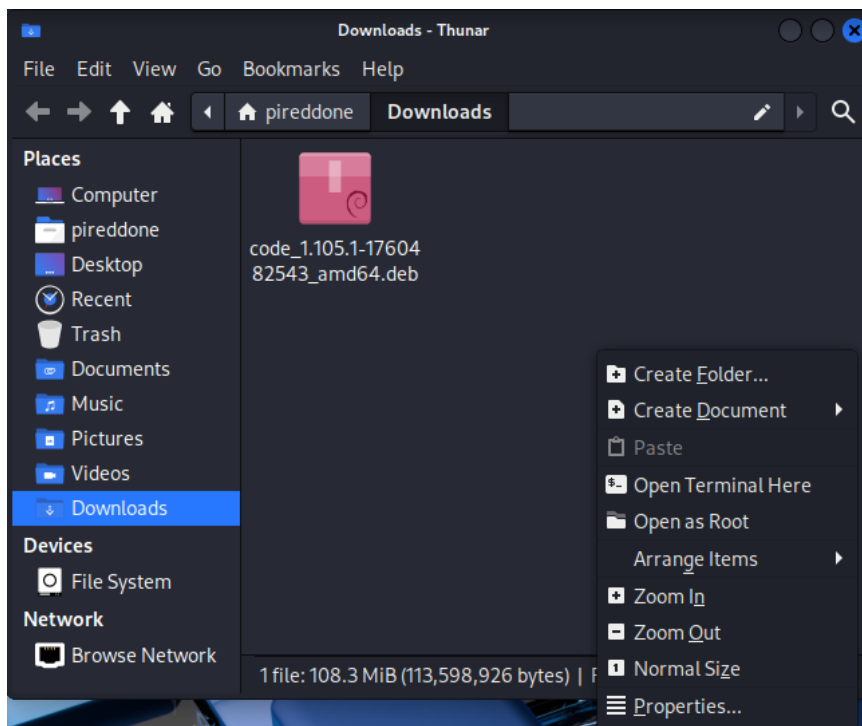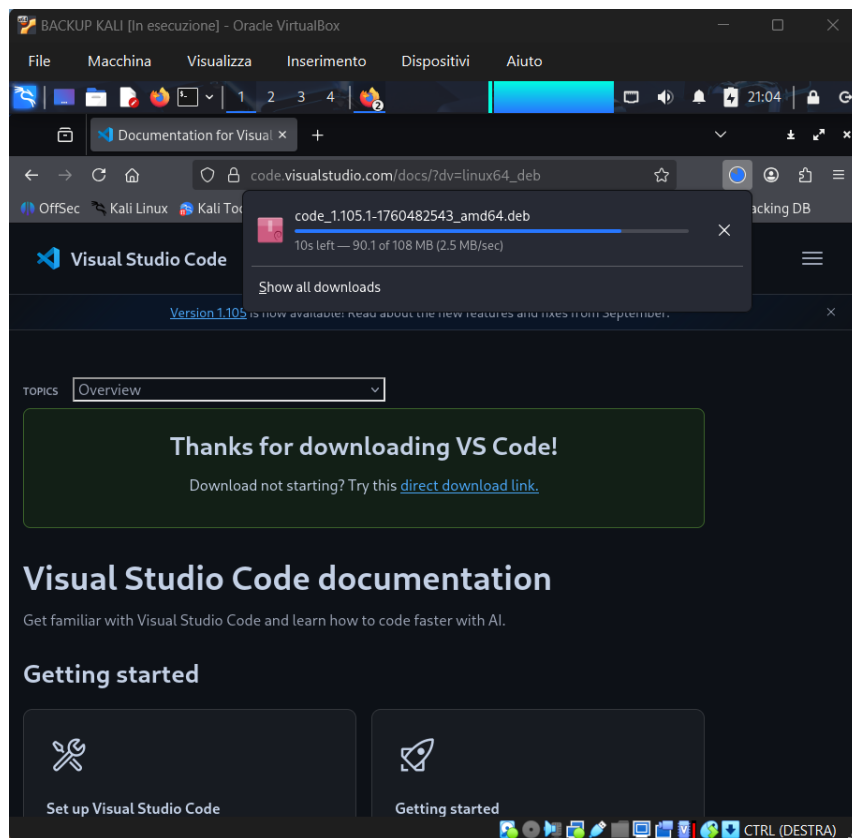
Session   Actions   Edit   View   Help

┌──(pireddone㉿kali)-[~/Downloads]
└─$ sudo dpkg -i code_1.105.1-1760482543_amd64.deb
[sudo] password for pireddone:
Selecting previously unselected package code.
(Reading database ... 417065 files and directories currently installed
.)
Preparing to unpack code_1.105.1-1760482543_amd64.deb ...
Unpacking code (1.105.1-1760482543) ...
Setting up code (1.105.1-1760482543) ...
Processing triggers for desktop-file-utils (0.28-1) ...
Processing triggers for shared-mime-info (2.4-5+b3) ...

┌──(pireddone㉿kali)-[~/Downloads]
└─$ sudo apt update && sudo apt install gdb
Get:1 https://packages.microsoft.com/repos/code stable InRelease [3,59
0 B]
Get:3 https://packages.microsoft.com/repos/code stable/main amd64 Pack
ages [19.7 kB]
Get:2 http://kali.download/kali kali-rolling InRelease [34.0 kB]
Get:4 http://kali.download/kali kali-rolling/main amd64 Packages [20.9
 MB]
Get:5 http://kali.download/kali kali-rolling/main amd64 Contents (deb)
 [51.7 MB]
Get:6 http://kali.download/kali kali-rolling/contrib amd64 Packages [1
13 kB]
Get:7 http://kali.download/kali kali-rolling/contrib amd64 Contents (d
eb) [245 kB]
Fetched 73.0 MB in 28s (2,595 kB/s)
55 packages can be upgraded. Run 'apt list --upgradable' to see them.
Upgrading:
  login

Session   Actions   Edit   View   Help

```
Get:2 http://kali.download/kali kali-rolling InRelease [34.0 kB]
Get:4 http://kali.download/kali kali-rolling/main amd64 Packages [20.9
 MB]
Get:5 http://kali.download/kali kali-rolling/main amd64 Contents (deb)
 [51.7 MB]
Get:6 http://kali.download/kali kali-rolling/contrib amd64 Packages [1
13 kB]
Get:7 http://kali.download/kali kali-rolling/contrib amd64 Contents (d
eb) [245 kB]
Fetched 73.0 MB in 28s (2,595 kB/s)
55 packages can be upgraded. Run 'apt list --upgradable' to see them.
Upgrading:
  login

Installing:
  gdb

Installing dependencies:
  libbabeltrace1          libsource-highlight-common
  libdebuginfod-common    libsource-highlight4t64
  libdebuginfod1t64       util-linux-extra
  libipt2

Suggested packages:
  gdb-doc  gdbserver  libc-dbg

Summary:
  Upgrading: 1, Installing: 8, Removing: 0, Not Upgrading: 54
  Download size: 5,333 kB
  Space needed: 17.6 MB / 30.0 GB available

Continue? [Y/n]
```

Session   Actions   Edit   View   Help

```
Selecting previously unselected package libdebuginfod1t64:amd64.
Preparing to unpack .../4-libdebuginfod1t64_0.193-3_amd64.deb ...
Unpacking libdebuginfod1t64:amd64 (0.193-3) ...
Selecting previously unselected package libipt2.
Preparing to unpack .../5-libipt2_2.1.2-3_amd64.deb ...
Unpacking libipt2 (2.1.2-3) ...
Selecting previously unselected package libsource-highlight-common.
Preparing to unpack .../6-libsource-highlight-common_3.1.9-4.3_all.deb
  ...
Unpacking libsource-highlight-common (3.1.9-4.3) ...
Selecting previously unselected package libsource-highlight4t64:amd64.
Preparing to unpack .../7-libsource-highlight4t64_3.1.9-4.3+b1_amd64.d
eb ...
Unpacking libsource-highlight4t64:amd64 (3.1.9-4.3+b1) ...
Selecting previously unselected package gdb.
Preparing to unpack .../8-gdb_16.3-5_amd64.deb ...
Unpacking gdb (16.3-5) ...
Setting up libdebuginfod-common (0.193-3) ...
Setting up libsource-highlight-common (3.1.9-4.3) ...
Setting up libipt2 (2.1.2-3) ...
Setting up libbabeltrace1:amd64 (1.5.11-4+b2) ...
Setting up util-linux-extra (2.41.2-1) ...
Setting up login (1:4.16.0-2+really2.41.2-1) ...
Setting up libdebuginfod1t64:amd64 (0.193-3) ...
Setting up libsource-highlight4t64:amd64 (3.1.9-4.3+b1) ...
Setting up gdb (16.3-5) ...
Processing triggers for libc-bin (2.41-12) ...
Processing triggers for man-db (2.13.1-1) ...
Processing triggers for kali-menu (2025.4.1) ...

┌──(pireddone㉿kali)-[~/Downloads]
└─$ 
```