







```
faridkarimli@faridkarimli-VirtualBox:~$ ip a
```

1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group defaul t qlen 1000

link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00

inet 127.0.0.1/8 scope host lo

valid_lft forever preferred_lft forever

inet6 ::1/128 scope host noprefixroute

valid_lft forever preferred_lft forever

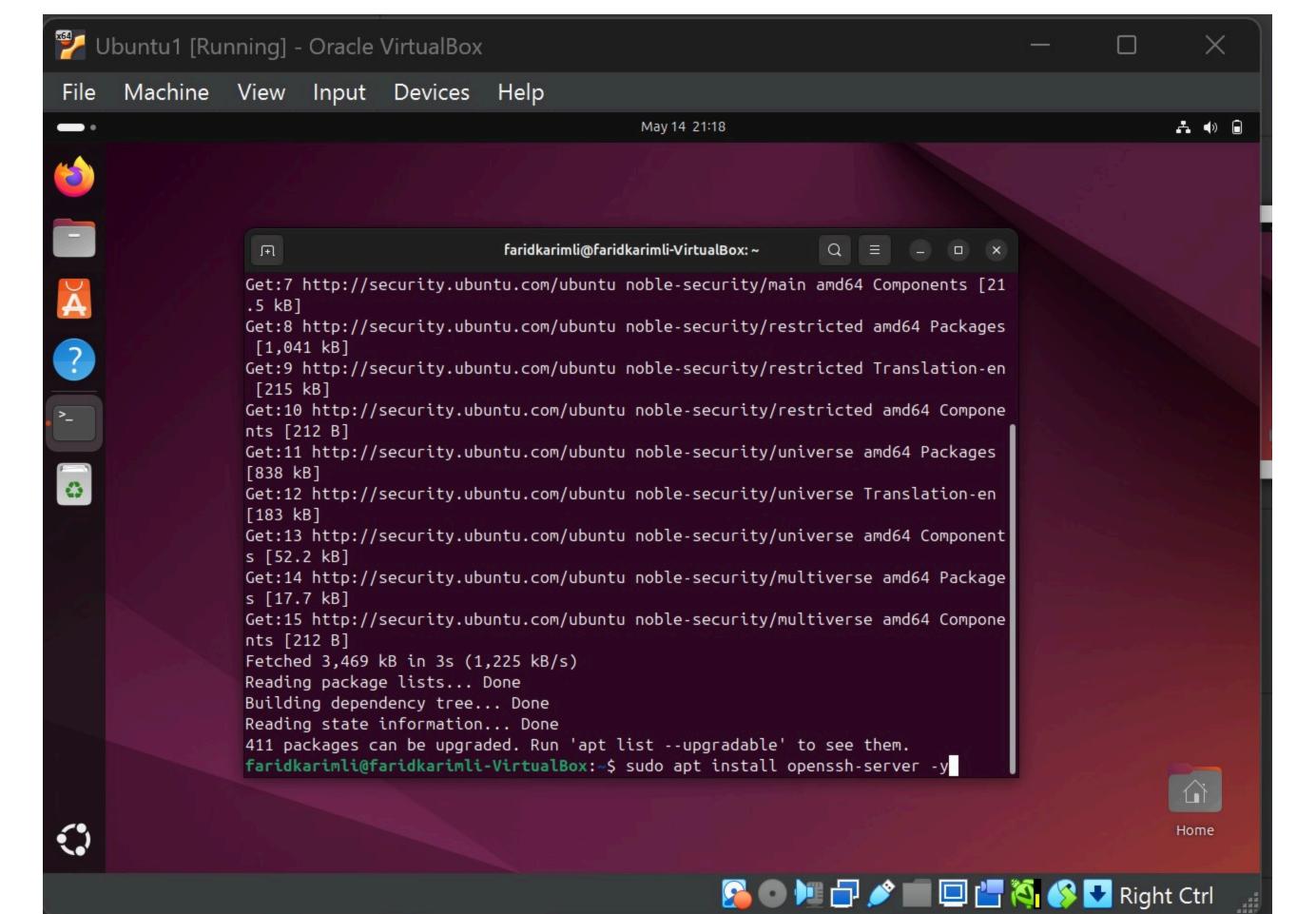
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000

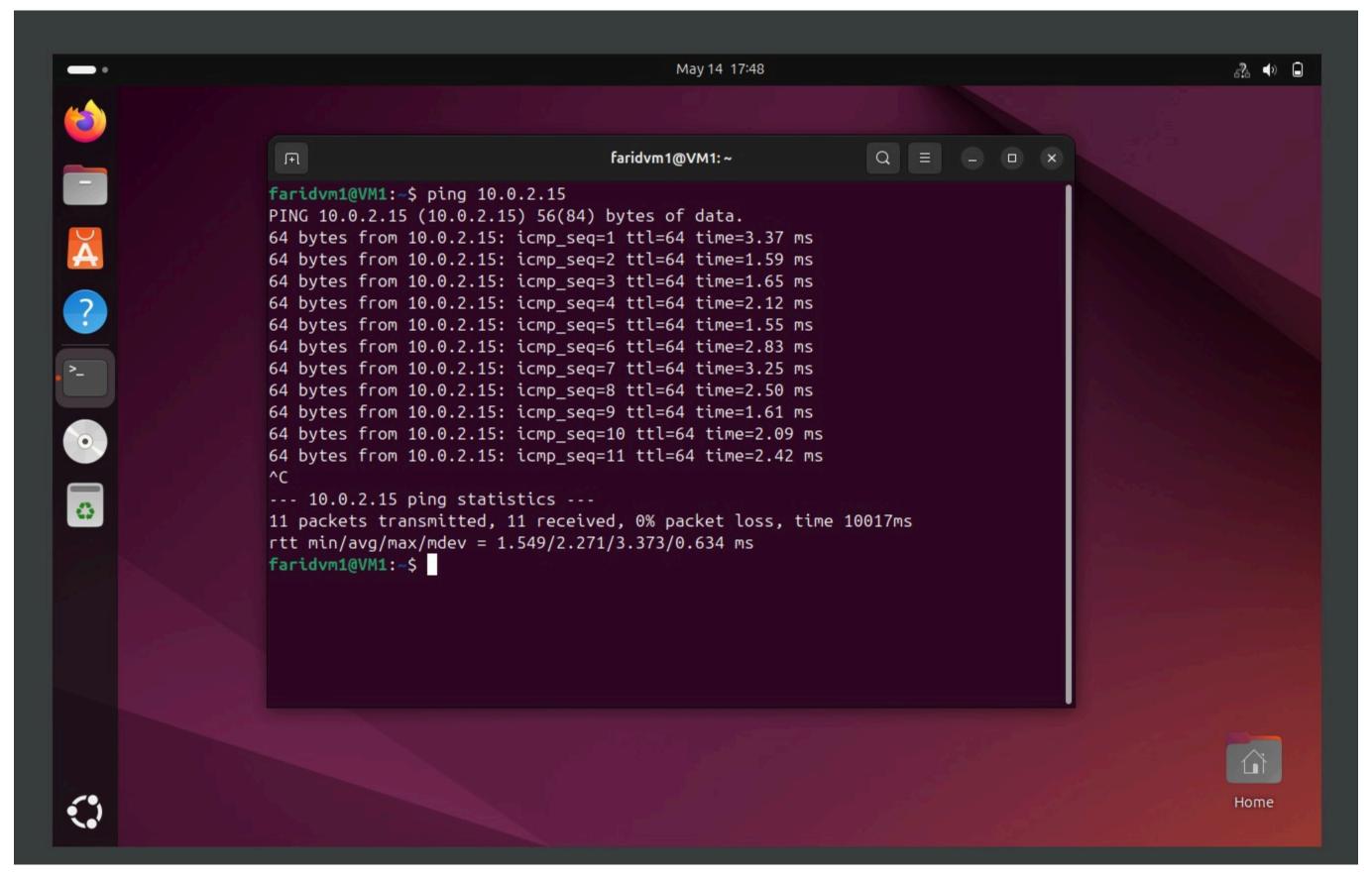
link/ether 08:00:27:e1:9b:90 brd ff:ff:ff:ff:ff

inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute enp0s3 valid lft 74100sec preferred lft 74100sec

faridkarimli@faridkarimli-VirtualBox:~\$

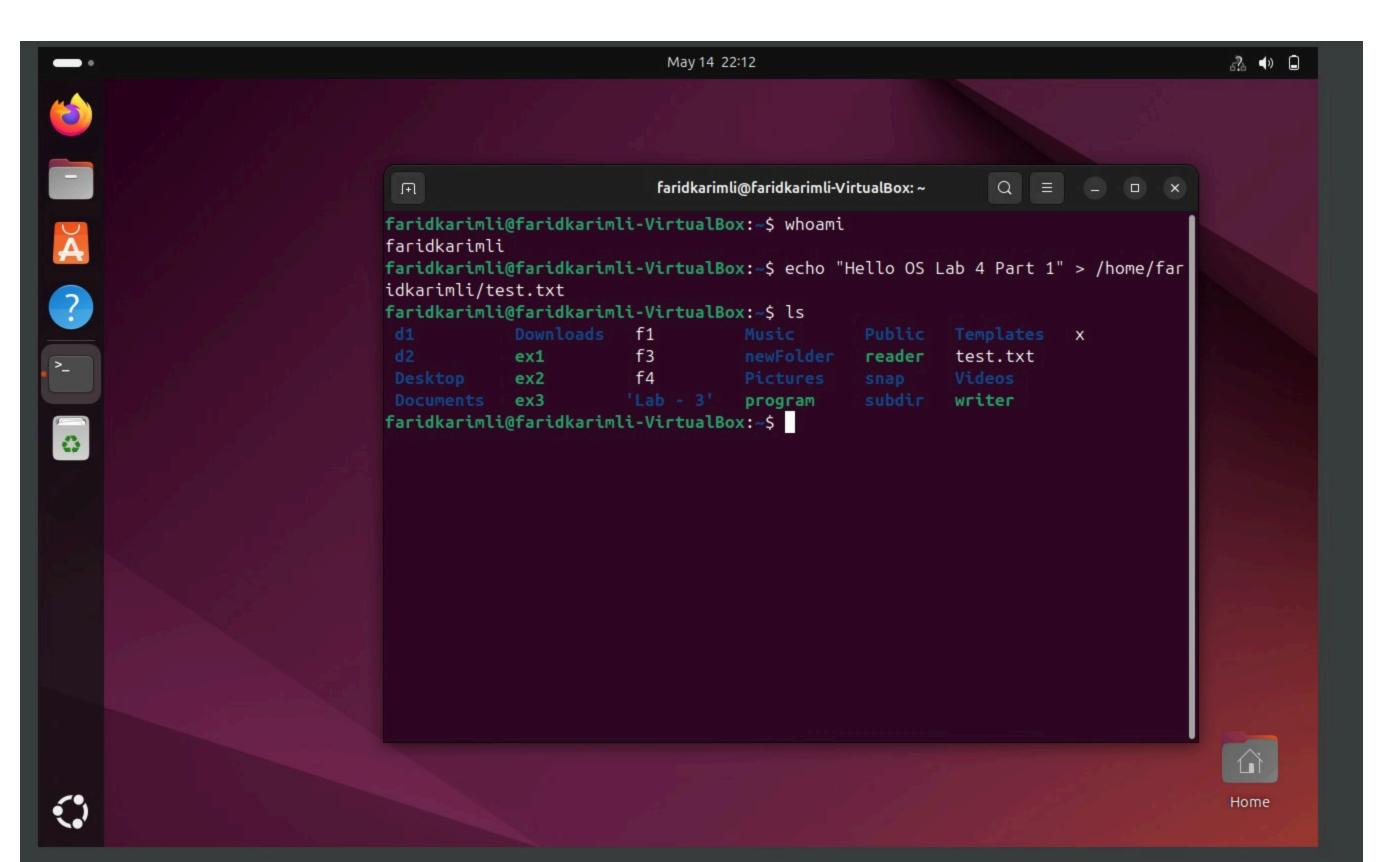
Home





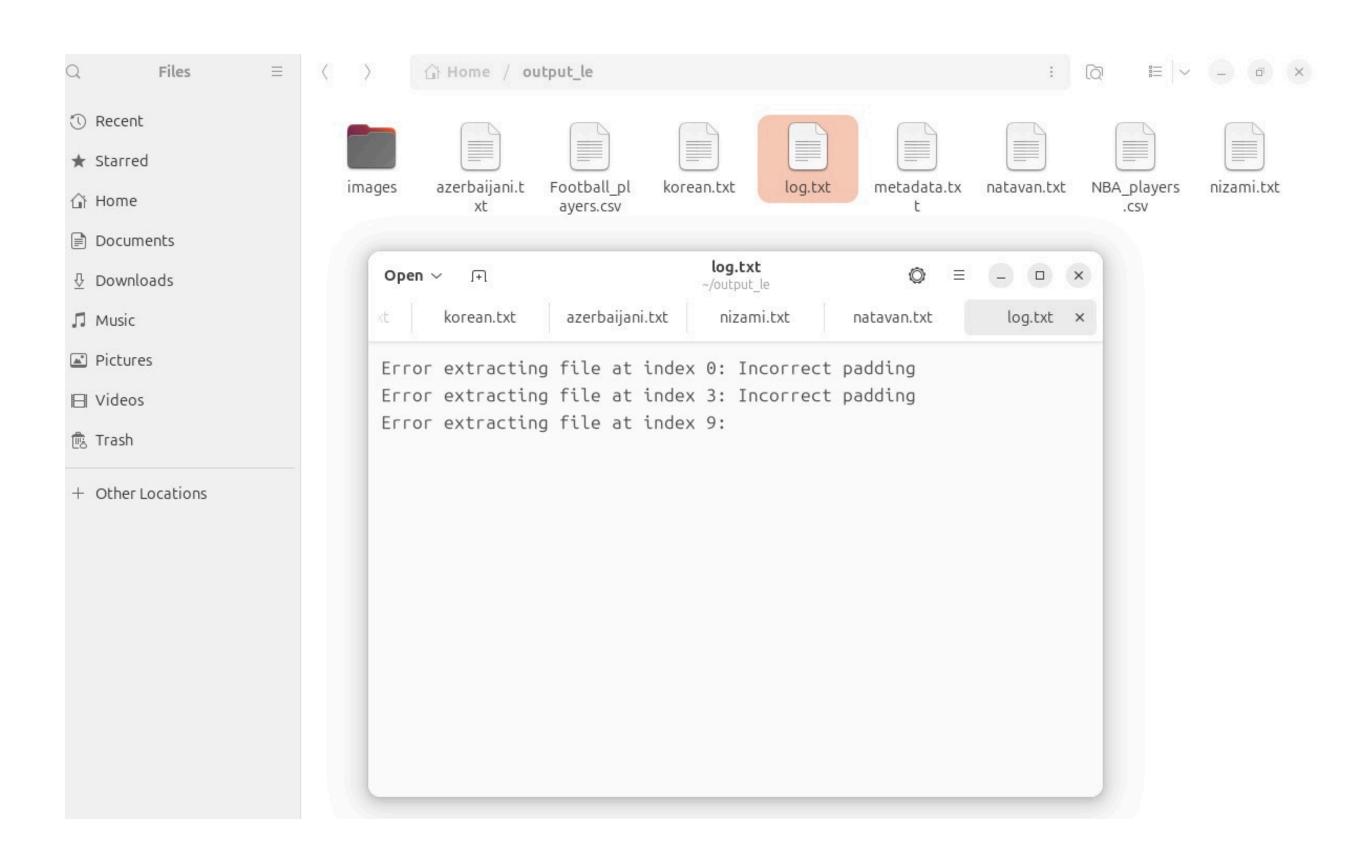
faridvm1@VM1:~\$

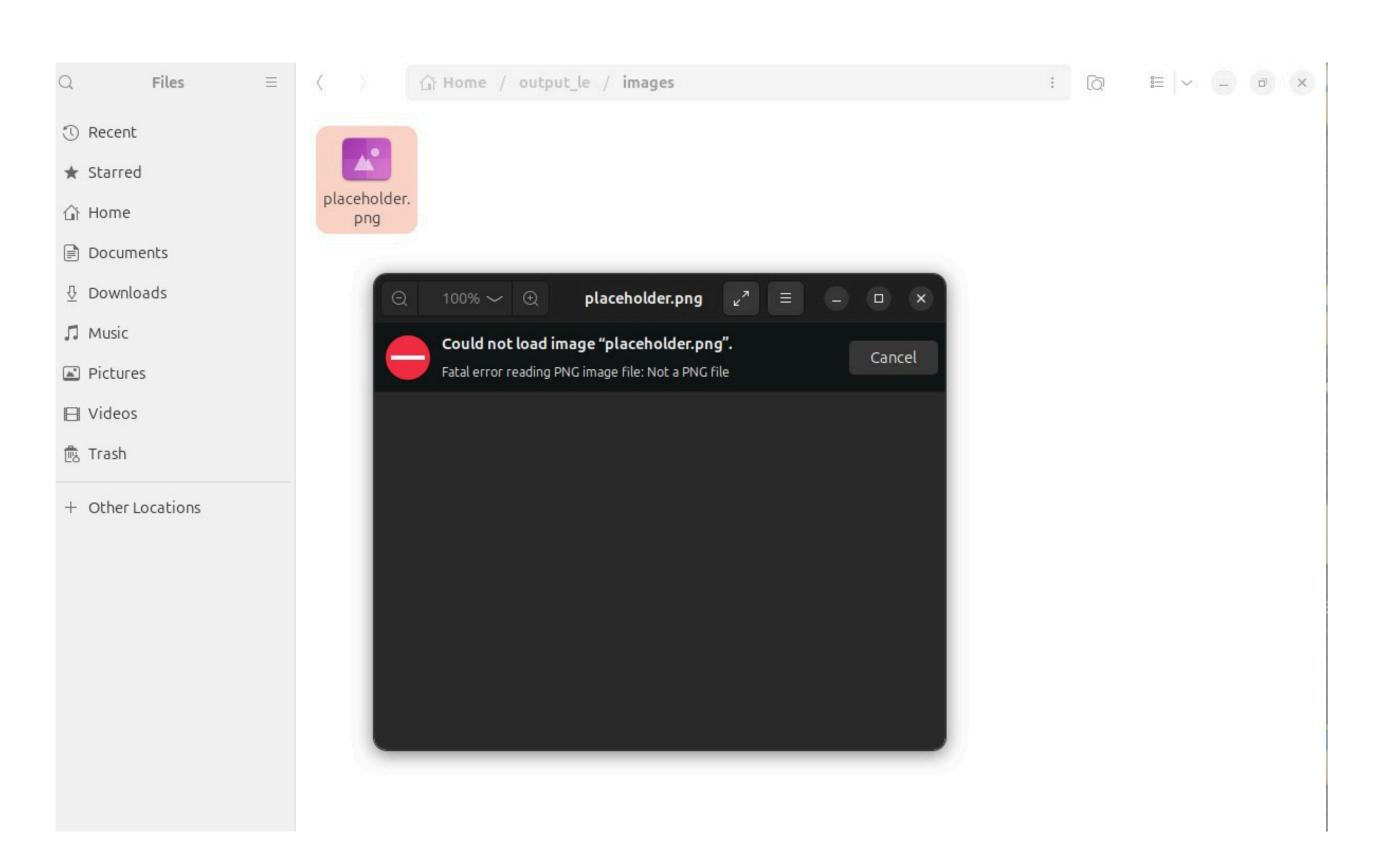
```
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? y
Please type 'yes', 'no' or the fingerprint: yes
Warning: Permanently added '10.0.2.15' (ED25519) to the list of known hosts.
faridkarimli@10.0.2.15's password:
scp: /home/faridvm1/test.txt: No such file or directory
faridvm1@VM1:~$ realpath test.txt
/home/faridvm1/test.txt
faridvm1@VM1:~$ ls -l test.txt
-rw-rw-r-- 1 faridvm1 faridvm1 56 May 14 17:50 test.txt
faridvm1@VM1:~$ realpath test.txt
/home/faridvm1/test.txt
faridvm1@VM1:~$ scp faridkarimli@10.0.2.15:/home/faridvm1/test.txt .
faridkarimli@10.0.2.15's password:
scp: /home/faridvm1/test.txt: No such file or directory
faridvm1@VM1:~$ scp faridkarimli@10.0.2.15:/home/faridkarimli/test.txt .
faridkarimli@10.0.2.15's password:
scp: /home/faridkarimli/test.txt: No such file or directory
faridvm1@VM1:~$ scp faridkarimli@10.0.2.15:/home/faridkarimli/test.txt .
faridkarimli@10.0.2.15's password:
                                                            0.3KB/s
test.txt
                                              100%
                                                     22
                                                                      00:00
faridvm1@VM1:~$ cat test.txt
Hello OS Lab 4 Part 1
```



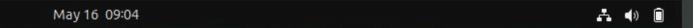
```
faridkarimli@faridkarimli-VirtualBox:~$ sudo apt install phyton3 -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
E: Unable to locate package phyton3
faridkarimli@faridkarimli-VirtualBox:~$
```

```
faridkarimli@faridkarimli-VirtualBox:~$ sudo apt install python3-cryptography
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
python3-cryptography is already the newest version (41.0.7-4ubuntu0.1).
python3-cryptography set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 402 not upgraded.
faridkarimli@faridkarimli-VirtualBox:~$
```





FI.













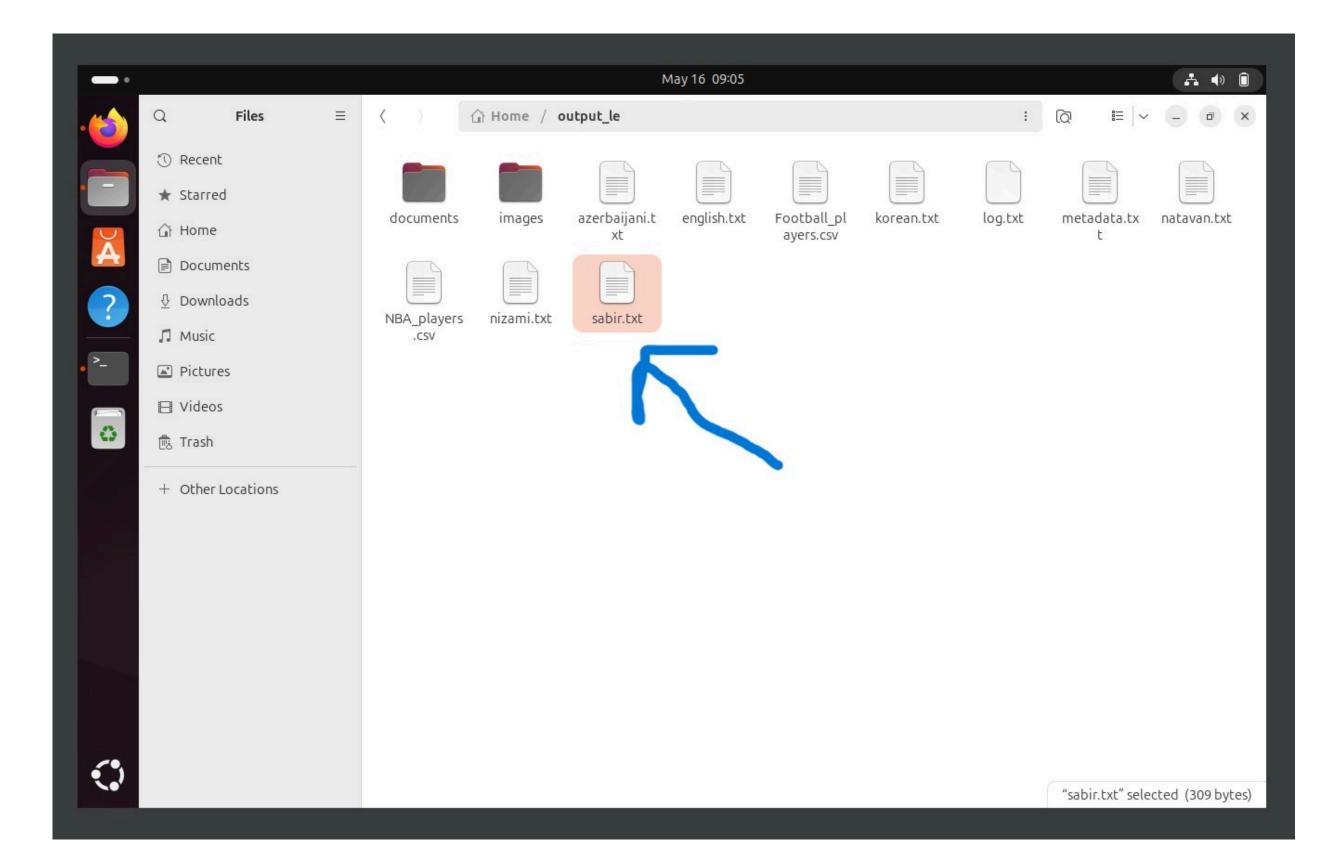


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faridkarimli@faridkarimli-VirtualBox: ~
 .
Fl
faridkarimli@faridkarimli-VirtualBox:~$ nano archextract.py
faridkarimli@faridkarimli-VirtualBox:~$ chmod +x archextract.py
faridkarimli@faridkarimli-VirtualBox:~$ python3 archextract.py -i archive_le.hex
 -o output le -v 1
[*] Extracting: english.txt (fernet)
[*] Extracting: azerbaijani.txt (lzma)
[*] Extracting: korean.txt (none)
[*] Extracting: sabir.txt (fernet)
[*] Extracting: natavan.txt (zlib)
[*] Extracting: nizami.txt (lzma)
[*] Extracting: NBA_players.csv (zlib)
[*] Extracting: Football players.csv (lzma)
[*] Extracting: images/placeholder.png (zlib)
[*] Extracting: documents/reports/annual_report.txt (fernet)
Extraction complete.
faridkarimli@faridkarimli-VirtualBox:~$
```



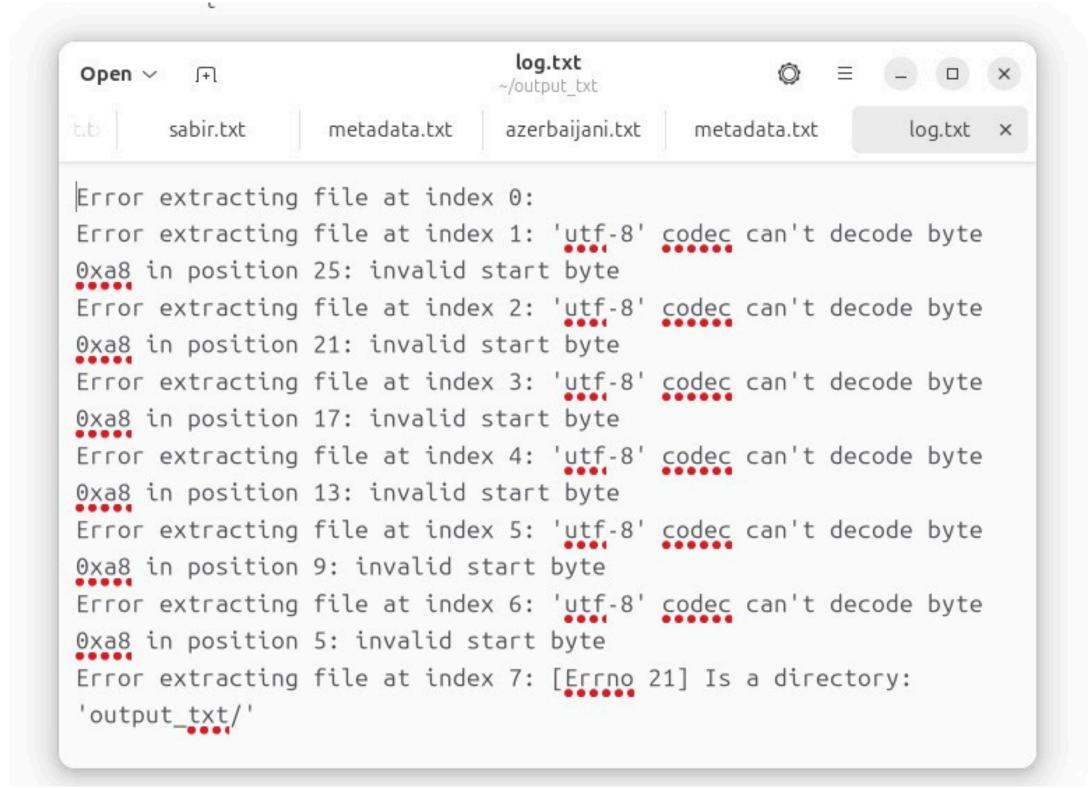




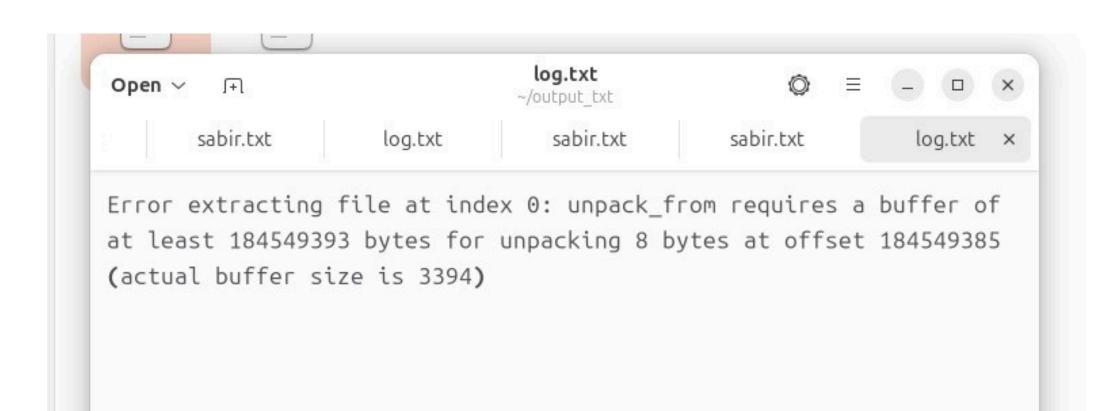


t

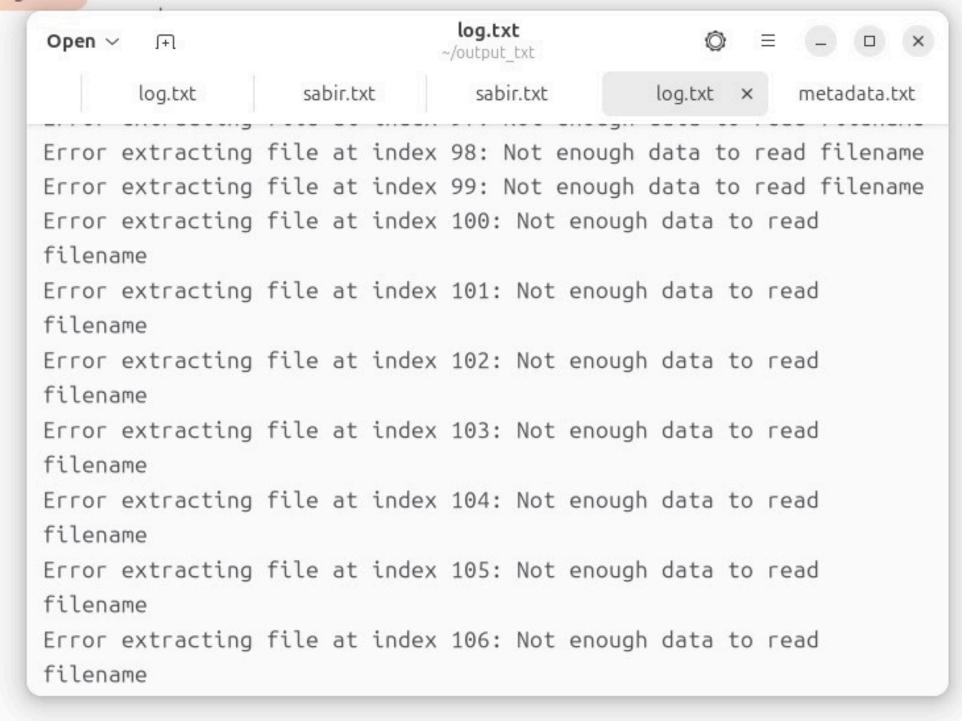
```
metadata.txt
                                                     Open V +
                              ~/output txt
   annual report.
                   sabir.txt
                              metadata.txt
                                           azerbaijani.txt
                                                        metadata. X
ERROR_0 ERROR
               ERROR
                      fernet:
                      fernet: 'utf-8' codec can't decode byte
ERROR 1 ERROR
               ERROR
0xa8 in position 25: invalid start byte
ERROR_2 ERROR ERROR fernet: 'utf-8' codec can't decode byte
0xa8 in position 21: invalid start byte
ERROR_3 ERROR ERROR fernet: 'utf-8' codec can't decode byte
0xa8 in position 17: invalid start byte
ERROR 4 ERROR
               ERROR
                       fernet: 'utf-8' codec can't decode byte
0xa8 in position 13: invalid start byte
               ERROR fernet: 'utf-8' codec can't decode byte
ERROR 5 ERROR
0xa8 in position 9: invalid start byte
ERROR_6 ERROR ERROR fernet: 'utf-8' codec can't decode byte
0xa8 in position 5: invalid start byte
ERROR 7 ERROR
               ERROR none: [Errno 21] Is a directory:
'output_txt/'
```



```
faridkarimli@faridkarimli-VirtualBox:~$ python3 archextract.py -i archive le wit
h_offsets.txt -o output_txt -v 1
Traceback (most recent call last):
  File "/home/faridkarimli/archextract.py", line 93, in extract archive
   filename = data[offset:offset+name length].decode('utf-8')
              ^^^^^^
UnicodeDecodeError: 'utf-8' codec can't decode byte 0x9d in position 11: invalid
 start byte
During handling of the above exception, another exception occurred:
Traceback (most recent call last):
  File "/home/faridkarimli/archextract.pv", line 162, in <module>
   extract archive(bin data, args.o, verbose=args.v)
  File "/home/faridkarimli/archextract.py", line 142, in extract_archive
   metadata lines.append(f"ERROR {index}\tERROR\tERROR\t{method str}: {e}")
                                                        ^^^^^^
UnboundLocalError: cannot access local variable 'method_str' where it is not ass
ociated with a value
faridkarimli@faridkarimli-VirtualBox:~$
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log.txt Open ~ ~/output txt sabir.txt log.txt log.txt × sabir.txt metadata.txt LITOI EACTUCETING THE OF THOSE AS NOT ENOUGH OUTS TO TEST THEMSE Error extracting file at index 43: Not enough data to read filename Error extracting file at index 44: Not enough data to read filename Error extracting file at index 45: Not enough data to read filename Error extracting file at index 46: Not enough data to read filename Error extracting file at index 47: Not enough data to read filename Error extracting file at index 48: Not enough data to read filename Error extracting file at index 49: Not enough data to read filename Error extracting file at index 50: Not enough data to read filename Error extracting file at index 51: Not enough data to read filename Error extracting file at index 52: Not enough data to read filename Error extracting file at index 53: Not enough data to read filename Error extracting file at index 54: Not enough data to read filename Error extracting file at index 55: Not enough data to read filename Error extracting file at index 56: Not enough data to read filename Error extracting file at index 57: Not enough data to read filename Error extracting file at index 58: Not enough data to read filename



```
faridkarimli@faridkarimli-VirtualBox: ~
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 JŦ1
[*] Extracting: Football players.csv (lzma)
[*] Extracting: Tennis_players.csv (fernet)
[*] Extracting: movies.json (fernet)
[*] Extracting: images/test image.png (zlib)
[*] Extracting: images/test image.jpg (lzma)
[*] Extracting: images/icon.png (zlib)
[*] Extracting: images/banner.jpg (lzma)
[*] Extracting: documents/reports/annual_report.txt (fernet)
[*] Extracting: index.html (lzma)
Extraction complete.
faridkarimli@faridkarimli-VirtualBox:~$ python3 archextract.py -i archive le.hex
 -o output le3 -v 1
[*] Extracting: english.txt (fernet)
[*] Extracting: azerbaijani.txt (lzma)
[*] Extracting: korean.txt (none)
[*] Extracting: sabir.txt (fernet)
[*] Extracting: natavan.txt (zlib)
[*] Extracting: nizami.txt (lzma)
[*] Extracting: NBA players.csv (zlib)
[*] Extracting: Football players.csv (lzma)
[*] Extracting: images/placeholder.png (zlib)
[*] Extracting: documents/reports/annual report.txt (fernet)
Extraction complete.
faridkarimli@faridkarimli-VirtualBox:~$
```

