

# Lab Exercise

## ▪ Add line numbers

- Create "week4" directory in your home directory
- Download "Aladdin.txt" file in your "week4" directory  
» \$ **wget** <http://www.fpx.de/fp/Disney/Scripts/Aladdin.txt>
- Create "Aladdin\_num.txt" file which has line numbers preceding all text lines
- **Only use** **open(), close(), read(), write()**
- **Don't use others such as**  
**scanf(), printf(), sprintf(), fscanf(), fprintf(), fopen(), ...**

# Lab Exercise

```
ALADDIN: THE COMPLETE SCRIPT
COMPILED BY BEN SCRIPPS <34RQNPQ@CMUVM.CSV.CMICH.EDU>
(Portions Copyright (c) 1992 The Walt Disney Company)

PEDDLER:  Oh I come from a land
          From a faraway place
          Where the caravan camels roam
          Where they cut off your ear /Where it's flat and immense
          If they don't like your face /And the heat is intense
          It's barbaric, but hey--it's home!
          When the wind's at your back
          And the sun's from the west
          And the sand in the glass is right
          Come on down,
          Stop on by
          Hop a carpet and fly
          To another Arabian night!
```

Aladdin.txt

```
1 | ALADDIN: THE COMPLETE SCRIPT
2 | COMPILED BY BEN SCRIPPS <34RQNPQ@CMUVM.CSV.CMICH.EDU>
3 | (Portions Copyright (c) 1992 The Walt Disney Company)
4 |
5 | PEDDLER:  Oh I come from a land
6 |          From a faraway place
7 |          Where the caravan camels roam
8 |          Where they cut off your ear /Where it's flat and immense
9 |          If they don't like your face /And the heat is intense
10 |         It's barbaric, but hey--it's home!
11 |         When the wind's at your back
12 |         And the sun's from the west
13 |         And the sand in the glass is right
14 |         Come on down,
15 |         Stop on by
16 |         Hop a carpet and fly
17 |         To another Arabian night!
```

Aladdin\_num.txt

```
linux> ls
ex4
linux> wget
http://www.fpx.de/fp/Disney/Scripts/Aladdin.txt
linux> ls
Aladdin.txt      ex4
linux> ./ex4 Aladdin.txt
linux> ls
Aladdin_num.txt  Aladdin.txt      ex4
```

# Lab Exercise

- **Submit your lab exercise**

- via iCampus
- Collect your **source codes** and **Makefile** into **tar.gz** format
  - \$ **tar cvzf** *student\_id.tar.gz* all\_your\_files
- We'll grade your submission with **make**
  - » If compilation fails, your points for this exercise will be zero

- **Write your questions to iCampus Q&A Board**

- **How to move files between host OS and guest OS**

- Use **Drag n Drop**, **Shared Clipboard** or **Shared Folder**
- <https://www.tecmint.com/install-virtualbox-guest-additions-in-ubuntu/>