

## Basic Linux commands (aka All you need to know for this lab)

- Deschidere terminal: ctrl + alt + t sau click dreapta -> open terminal
- Deschidere tab nou in terminal: Ctrl + Shift + T
- Schimbare tab curent: alt + numar\_tab
- Crearea unui fisier text:

- **vim** nume\_fisier ([TUTORIAL](#))
- **gedit** nume\_fisier &

```
andreea@HP:~$ gedit my_first_c_program.c &  
[1] 21669
```

- Afisarea continutului unui fisier text in linia de comanda:

- **cat** nume\_fisier

```
andreea@HP:~$ cat my_first_c_program.c  
#include <stdio.h>  
  
int main()  
{  
    printf("Salut, lume\n");  
    return 0;  
}
```

- Afisarea continutului directorului curent

- **ls**

```
andreea@HP: ~/Documents/git_stuff/Deep-Learning-Image-Captioning  
andreea@HP:Deep-Learning-Image-Captioning$ ls  
data  embeddings  make_flickr8k_setup.sh  model  README.md  results  src
```

- **ls -l**

```
andreea@HP: ~/Documents/git_stuff/Deep-Learning-Image-Captioning  
andreea@HP:Deep-Learning-Image-Captioning$ ls -l  
total 28  
drwxrwxr-x 2 andreea andreea 4096 mar 20 2018 data  
drwxrwxr-x 2 andreea andreea 4096 mai 28 18:01 embeddings  
-rwxrwxr-x 1 andreea andreea 244 sep 30 19:47 make_flickr8k_setup.sh  
drwxrwxr-x 2 andreea andreea 4096 apr 18 21:01 model  
-rw-rw-r-- 1 andreea andreea 949 oct 6 14:33 README.md  
drwxrwxr-x 2 andreea andreea 4096 sep 30 17:02 results  
drwxrwxr-x 4 andreea andreea 4096 oct 2 15:36 src
```

- Schimbarea directorului (folder) curent

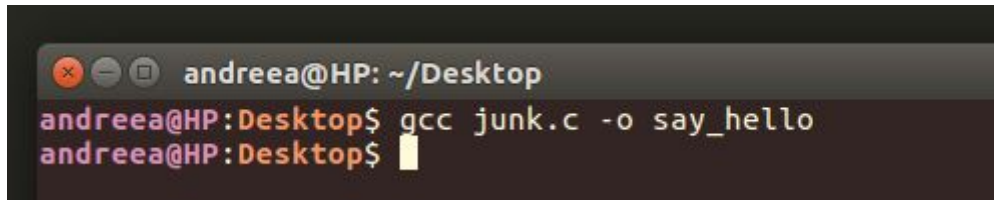
- **cd** nume\_folder\_in\_care\_dorim\_sa\_mergem

```
andreea@HP: ~/Documents/git_stuff/Deep-Learning-Image-Captioning/results  
andreea@HP:Deep-Learning-Image-Captioning$ ls  
data  embeddings  make_flickr8k_setup.sh  model  README.md  results  src  
andreea@HP:Deep-Learning-Image-Captioning$ cd results  
andreea@HP:results$
```

Obs: Directorul curent este afisat cu prompt-ul de fiecare data (sub forma andreea@HP:folder\_curent pe masina din exemplu)

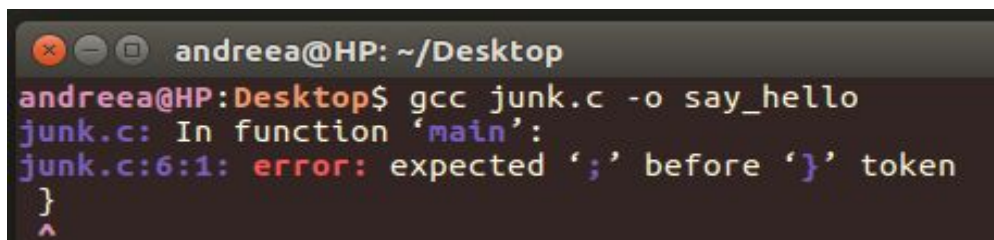
- **cd ..** (merge in parintele folderului curent)
- Compilarea unui fisier sursa C
  - **gcc nume\_fisier\_sursa.c -o nume\_executabil**

Daca fisierul compileaza fara erori, vom vedea:



```
andreea@HP: ~/Desktop
andreea@HP:Desktop$ gcc junk.c -o say_hello
andreea@HP:Desktop$
```

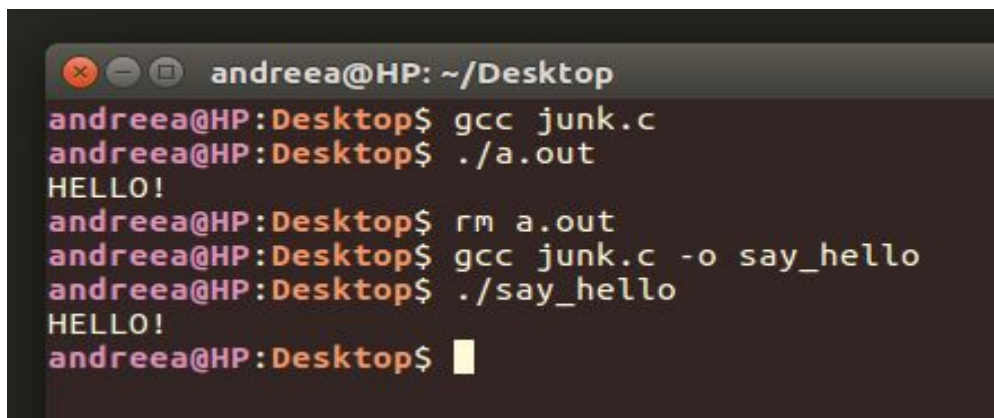
Altfel, compilatorul ne va informa despre erorile de sintaxa gasite (inclusiv linia la care apare problema):



```
andreea@HP: ~/Desktop
andreea@HP:Desktop$ gcc junk.c -o say_hello
junk.c: In function 'main':
junk.c:6:1: error: expected ';' before '}' token
}
^
```

Compilarea trebuie sa se faca de fiecare data cand executabilul este rulat, in cazul in care codul sursa a fost modificat.

- Rularea unui executabil
  - **./nume\_executabil**
  - By default (daca nu mentionam "-o nume\_executabil", gcc creeaza un executabil cu numele **a.out**)



```
andreea@HP: ~/Desktop
andreea@HP:Desktop$ gcc junk.c
andreea@HP:Desktop$ ./a.out
HELLO!
andreea@HP:Desktop$ rm a.out
andreea@HP:Desktop$ gcc junk.c -o say_hello
andreea@HP:Desktop$ ./say_hello
HELLO!
andreea@HP:Desktop$
```