

# Week 4 Lab

## This Week

Next week you will demonstrate your first C program. You should be able to access the Unix terminal, edit the program using nano and compile it using gcc. If you have completed all of the tasks from last weeks lab, you will have finished the backlog. If not, here are the tasks again.

1. Log on to Linux
2. Open a terminal.
3. See which directory your are in.
4. Create a new directory in your home directory called “test”
5. List the directories in your home directory.
6. Move into the “test” directory
7. Create a new directory in the “test” directory called “temp”
8. Try to remove the new directory using “rm.” What happens?
9. Create a new file called “readme” using the “cat” command that contains the words “Hello World”.
10. List the “readme” file using the “cat” command.
11. List the “readme” file using the “less” command.
12. List the contents of the “test” directory showing permissions.
13. Change the permission of “readme” to disallow world read and write and group write.
14. List again showing permission. What changed?
15. List the contents of the “test” directory showing permission and files that start with a “.”
16. Delete the “readme” file.
17. Move back to your home directory.
18. Try to remove the “test” directory. What happens.
19. Remove the “test” directory without going into the “temp” directory.

20. Remove the “temp” directory.
21. Move to the root directory.
22. List the contents to the root directory showing permissions and files that start with a “.”
23. List the content of the home directory. Find your home directory and list the contents of it.
24. Try to remove the “home” directory. What happens?
25. Create a directory called **project1** for the Hello World project
26. Write “helloWorld.c” using nano

```
#include <stdio.h>

int main(int argc, char *argv[])
{
    printf("Hello world\n");
    return 0;
}
hello.c (END)
```

```
all: hello

hello: hello.o
    gcc -o hello hello.o

hello.o: hello.c
    gcc -c hello.c

clean:
    rm hello.o hello

Makefile (END)
```

- 27.27. Compile hello world using gcc

## Demo

Today you will demo the first half of the backlog from last week.

## Marks

- Story 6 (15 Marks)
- Story 7 (15 Marks)
- Story 8 (15 marks)