

2. **Basic shell commands (50 points):** After you launch your Linux virtual machine, open a terminal and do the following actions through the command line:

(a) List the content of your current directory.

```
student@student-VirtualBox:~$ ls
Desktop  Downloads      Music  Public  Videos
Documents examples.desktop Pictures Templates
```

(b) Change your directory to your Desktop, make a new folder “lab0-lastname” (you should replace “lastname” to your own last name).

```
student@student-VirtualBox:~$ cd Desktop
student@student-VirtualBox:~/Desktop$ mkdir lab0-McDonald
```

(c) Copy the file “hello.cpp” in the folder “lab0” to your new folder and view the contents of “hello.cpp”.

```
student@student-VirtualBox:~/Desktop/lab0$ cp hello.cpp
/home/student/Desktop/lab0-McDonald
student@student-VirtualBox:~/Desktop/lab0$ cd ..
student@student-VirtualBox:~/Desktop$ cd lab0-McDonald
student@student-VirtualBox:~/Desktop/lab0-McDonald$ ls
hello.cpp
student@student-VirtualBox:~/Desktop/lab0-McDonald$ more hello.cpp
#include <iostream>
```

```
using namespace std;
```

```
int main () {

    cout << "hello" << endl;
    return 0;

}
```

(d) Print your current working directory.

```
student@student-VirtualBox:~/Desktop/lab0-McDonald$ pwd  
/home/student/Desktop/lab0-McDonald
```

3. Write, compile and execute a simple C++ code (50 points):

(a) Please write a C++ program that outputs the following two sentences (please replace [...] to your own name) on screen:

```
Hello, everyone in COE 301!  
I am [Your Name].
```

Can find the program in hello.cpp

(b) How do you compile the code using g++?

```
student@student-VirtualBox:~/Desktop/lab0-McDonald$ g++ -o HelloMcDonald  
hello.cpp  
student@student-VirtualBox:~/Desktop/lab0-McDonald$ ./HelloMcDonald
```

(c) When you run your complied program, what is the output?

```
Hello, everyone in COE 301  
I am Aston McDonald
```