

COMP3000 - Exercise 2 (Individual)

Process Creation - Error Handling

January 15, 2017

This exercise must be done in the C programming language under Linux. Using the provided file named `main.c`, implement the function

```
create (char* program, char** arg_list)
```

such that it does the following.

1. Fork a new process.
2. The parent process returns.
3. The child process executes `program` with `arg_list` using a system call from the `exec` family. When the call fails, use the `errno` variable to print an error message and abort the execution.

The program execution should look like:

```
barbeau$ ./exercise02
total 100
drwxr-xr-x  2 root root  4096 Sep  6 00:18 bin
drwxr-xr-x  3 root root  4096 Sep  6 13:46 boot
drwxrwxr-x  2 root root  4096 Apr 26  2015 cdrom
...
*** No such file or directory
Normal main program termination
barbeau$
```

Due date: January 29, submit your work on cuLearn.