

Lab 3

© INSTRUCTOR: DR. MD. MAHFUZUR RAHMAN

100 Points

Objectives:

Today we will be covering the following topics:

1. Create, compile, and run your first C program.
2. Modify, compile and run the modified program.

Instructions:

- Attendance is mandatory.
- Labs must be completed individually.
- If you have any questions, please do not hesitate to ask TA.
- Follow submission instructions in the deliverable section.
- **Lab assignments are due at midnight on the day of your lab (i.e., by 11:59 PM)**

1. Create or copy the following `hello world` program using the `vi` editor and save it as `lab3.c`:

```
/*  
    hello world  
*/  
  
#include <stdio.h>  
  
int main (int argc, char *argv[]) {  
  
    printf("hello_world.\n");  
  
    return 0;  
}
```

- (a) (10 points) Start recording your session using the `script` utility.
- (b) (10 points) Show the contents of `lab3.c` using the `cat` command.
- (c) (10 points) Compile `lab3.c` using the `gcc` and appropriate object file name using `-o` flag.
- (d) (10 points) Run your program using appropriate command.
- (e) (10 points) Copy the program into a separate file, named `lab3_modified`. (use the `cp` command)
- (f) (10 points) Use the `vi` editor to edit the program. Add your full name, followed by "is modifying the program" in a separate `printf` statement after the line `hello world`.
- (g) (10 points) Show the contents of `lab3_modified.c` using the `cat` command.
- (h) (10 points) Compile `lab3_modified.c` using the `gcc` and appropriate object file name using `-o` flag.
- (i) (10 points) Run your program using appropriate command.
- (j) (10 points) Finish your recording (use the `exit` command).

Deliverables

For today's lab, clean the text file (.txt) you recorded during your terminal session, if there are unwanted characters. In other words, make it as you observed during your terminal session. Please name your text file as **last-name_firstname_lab03.txt**. You will need to submit the text file (terminal session record) to the **Lab 03** dropbox in iCollege.