

# IPC144

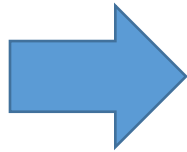
## Introduction to C Programming

**Professor: Cameron Gray**



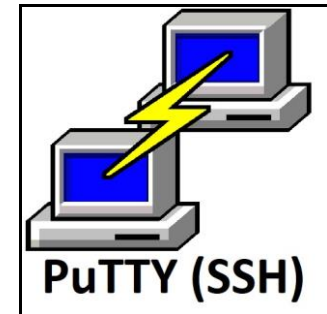
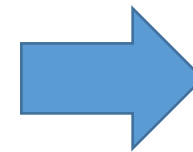
- Develop your solution
- Use **Visual Studio 2019**
- Test, debug, refine and perfect the code

1



- Copy Files to matrix (Linux server)
- Copy the source code file(s)
- Only extensions \*.c and \*.txt

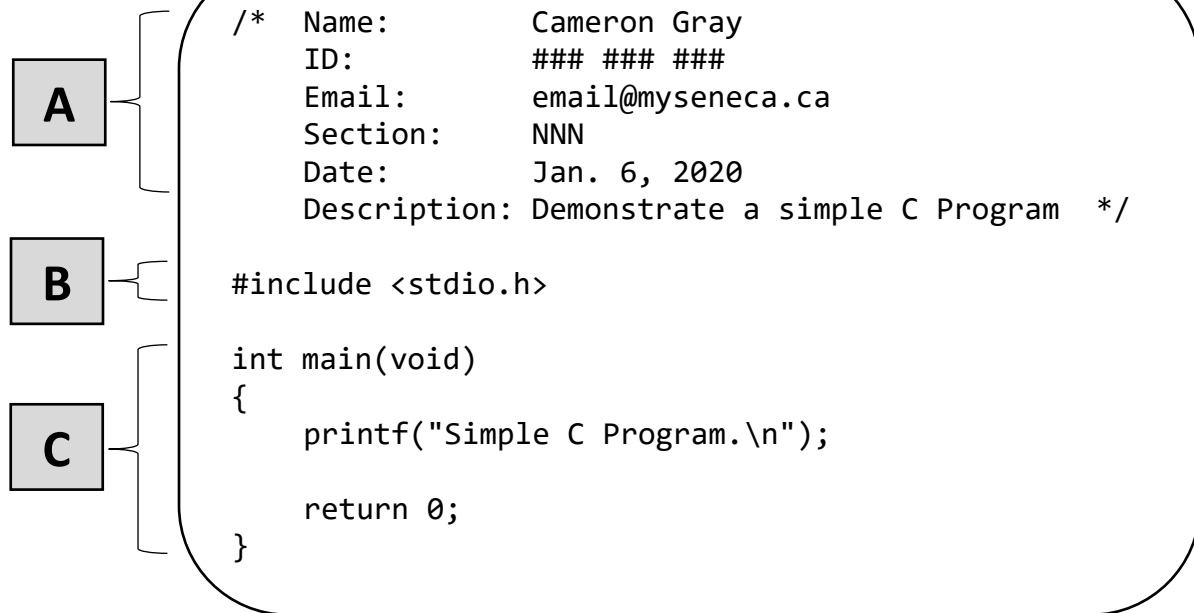
2



- Connect to matrix in a secure terminal session
- Use **PuTTY!**
- Navigate to the where the source files are
- Compile them using GNU compiler (gcc)
- Retest to ensure it works as expected

3

## Basic C Program (Outline)



## Basic Sections

A) Commented Introduction block

- Describes the source file:
  - o **\* Author [your full name]**
  - o **\* Student ID**
  - o **\* Email**
  - o **\* Class Section**
  - o **\* Date**
  - o **\* Description:** Place your lab/project # here: “Workshop 1 – Lab” or “Workshop 1 – Home”)

***NOTE: Above pieces of information are mandatory for submissions***

B) Directive(s)

- Header files
  - o These are libraries that contain functions we will use in our programs
  - o **stdio.h** is required for any standard input/output and allows us to use functions like:
    - printf
    - scanf

C) Main Function

- The main function section is the entry point for the program
- It will contain a sequence of statements/instructions your program will perform
- Formatting is important for readability and should follow proper style guidelines (ex: indentation)