

# CSE 2031 Software Tools

## Lab Exercise 0.1 – Introduction

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### 1 "Hello World" program

#### 1.1 Specification

Write simple "Hello World" program which will print the course number, your name and surname. Your `.c` file should be named "ex0-1.c".

You should include `stdio.h` which is one of the standard libraries in C. Put following line in the beginning of your file, right after the copyright note (see [http://www.cse.yorku.ca/course\\_archive/2009-10/S/2031/conventions.html](http://www.cse.yorku.ca/course_archive/2009-10/S/2031/conventions.html) for details)

```
#include <stdio.h>
```

Declare necessary constants using `#define`

Use `int printf( const char *format, ... );` to print the text to the standard output.

Sample output:

```
Course: CSE2031
Name: Przemyslaw
Surname: Pawluk
```

#### 1.2 Compilation

Use following command to compile your program:

```
cc -o ex0-1.o ex0-1.c
```

### 2 MODifications

#### 2.1 Reading standard input

Modify your program to read standard input line by line. Declare necessary variables to store course code and name, your name and surname. Use function `int getline(char s[], int lim)` from the book (code below)

```
/**
 * getline: read a line into s, return length
 * @param char s[] - buffer
 * @param int lim - buffer size
 * @return length of read line
 */

int getline(char s[], int lim){
int c, i;

for(i=0; i<lim-1 && (c=getchar())!=EOF && c!='\n'; ++i)
    s[i]=c;
if(c=='\n'){
    s[i]=c;
    ++i;
}
s[i]='\0';
return i;
}
```