

**Homework 0 Due Tue Oct 6 at 20:00**

Note: This homework is not graded. Its purpose is to check that

- i) You can write a simple Makefile
- ii) You can write a simple "Hello World" program in C++.
- iii) You are familiar with the **tar** command.
- iv) You are familiar with the **handin** command on CSIF computers.

**Use the handin directory hw0 to submit your work**

- 1) Write a C++ program that prints the following line on stdout:

```
Hello ECS40 from xxxxx
```

where the string **xxxxx** is replaced by the last five digits of your Student ID. The output should consist of a single line terminated by an end of line character. The output should consist of exactly 23 characters (including the end of line character).

The program source file name should be **hello.cpp**.

- 2) Write a **Makefile** such that the command

```
$ make
```

compiles the program **hello.cpp** and produces an executable named **hello**.

The **Makefile** should include a target named **clean** so that the command

```
$ make clean
```

removes the executable file **hello**.

- 3) Create a tar file called **hello.tar** containing the files **hello.cpp** and **Makefile**. Do not use data compression to create the tar file.

- 4) Submit your file **hello.tar** using the **handin** command:

```
$ handin cs40 hw0 hello.tar
```

A script will be run in your handin hw0 directory and will execute the following commands:

```
$ tar xf hello.tar
```

```
$ make
```

```
$ ./hello > hello.dat
```

The contents of **hello.dat** will then be checked.