**Student Name:** **Student ID:**

# Important Information

* For *every* lab and home assignment, store all your work in your personal repository in a subdirectory named **mXX**, where XX is the module number. Carefully name the program as described in each problem.
* Your programs are extracted from your repository by a Python script. If there are any errors in the program name, then your instructor will never see your program, and you will receive a mark of zero.
* Push your work to the server often, and ensure that you push the final version of a program by the deadline specified, because the script extracting them can be run at any time after the deadline.

# Instructions

1. Read chapters 6–10 in *How to Think Like a Computer Scientist: Learning with Python*, available at [www.greenteapress.com/thinkpython/thinkCSpy.pdf](http://www.greenteapress.com/thinkpython/thinkCSpy.pdf).
2. Complete Problem 6.

**Note:** Problem numbering continues from the module’s lab.

## Problem 6

Write a Python program named **m03p06.py** that dumps the Program Header and Section Headers from an ELF file given as command line parameter.

* The ELF file format is described here: <https://en.wikipedia.org/wiki/Executable_and_Linkable_Format>
* For each Program Header entry, dump at least the p\_type, p\_offset, p\_vaddr, p\_filesz and p\_memsz.
* For each Section Header, dump at least Name, Type, Address, Offset and Size.