

MCS 260 – Introduction to Computer Science – Fall 2020 – David Dumas

Project 0 – Getting to know the autograder

OVERVIEW

This document describes an **optional, ungraded warm-up project** that students can complete to gain experience submitting code to the autograder.

Unlike the main projects (1–4), for this warm-up project the course staff can assist students in modifying their code to meet the standards described below (and hence passing the automated tests). Students may find such consultation and practice useful when they later complete the graded projects.

OPERATIONAL SPECIFICATION

Write a program in Python called `grademe.py` that reads an integer x from the keyboard and then prints two lines:


- The first line should consist of the integers x and $x + 1$ with one space between them
- The second line should consist of the integers x^2 and x^3 with one space between them

SOURCE CODE SPECIFICATION

This warm-up project will not be subject to source review. (But keep in mind that projects 1–4 will have specific requirements on source code formatting.)

SAMPLE INPUT AND OUTPUT

This section contains examples of input and output for a program meeting the specifications of this project.

In what follows,  indicates that the return key is pressed.

Example 1. Keyboard input:

12 

Output:

12 13
144 1728

Example 2. Keyboard input:

-5 

Output:

-5 -4
25 -125

SOLUTION

Students who have completed this warm-up may want to compare their code to a sample solution. One is provided at:

<https://dumas.io/teaching/2020/fall/mcs260/project0/grademe.py>

Alternatively, you may use this solution to simply test the submission process in Gradescope.

It may also be instructive to take this solution and make minor changes to it, noting how it affects the autograder output.

RELEASE HISTORY

- 2020-09-05 Initial release