ELIZABETHTOWN COLLEGE
DEPARTMENT OF COMPUTER SCIENCE

Assembly Lab #2: Basic Graphics

Student name:

Course: *Digital Design II* – Professor: *Professor X*
Due date: *March 28th, 2025*

Lab Objective

Create a line of decreasing brightness on the screen.

Prelab.

- Read the documentation on Video Memory.

- Become familiar with the following opcodes: MOV, ADD, INC(X), JMP, CMP.

During Lab

You will write a simple program that will draw a line on the screen with each pixel being slightly dimmer than the last.

- Create variables to hold your screen position and brightness.

- Write a loop to go through positions on the screen.

- Decrement the brightness value.

- Continue for the length of the screen.

Grading

40% - Program assembles
40% - Program draws line
10% - Comments added
10% - Loop runs in less than 15 cycles

Helpful Links

Cosmic Documentation