

CSE 232 Systems Programming 2023 Spring

Assignment1

Purpose: The purpose of this labwork is to practice arithmetic operations in M6800 assembly language programming.

- 1) Write an assembly language program which implements the following arithmetic operations:

$$x = x * 3;$$
$$y = y / 8;$$
$$x = (x * 5) - (y * 7);$$

*You should store x in the address 50H and y in the address 60H.

2) Run your code with the following data and write a report explaining the results. In each case, convert your results into decimal and write if it is correct or not. If it is not correct, explain the reasons.

a) $x = 5, y = 20$

b) $x = 10, y = 24$

c) $x = 1, y = 40$

Inputs		Results (binary)		Results (decimal)		Correct or not	Explanation
--------	--	------------------	--	-------------------	--	----------------	-------------

x	y	x	y	x	y		