La Salle College
Algorithms & Programming (420AP1AS)

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Assignment 1

#1 [scratch coding]

To get a head start and familiarize yourself with the basic blocks of programming that you we will be mastering this semester, please build something in Scratch.

Do what you can.

This exercise is meant to examine your ability to <u>breakdown a problem</u>, your <u>courage</u> when venturing in uncharted territory, and your <u>curiosity</u> when it comes to exploring different avenues and solutions.

#2 [breakfast robot]

Vicky Love is your personal robot. For fluidity, it will be personified, i.e., usage of pronouns she/her, instead of it. Please write an *<u>algorithm</u>* – in English, that gives her the necessary instructions to prepare your breakfast.

Guidelines:

- Start by specifying <u>*when*</u> she needs to begin her <u>*execution*</u>, and end with <u>*where*</u> your breakfast is being placed.
- In between, build your <u>*instructions*</u> leading with an imperative verb, since Vicky Love will be performing actions, in the kitchen.
- Spell it all out: do *no*t skip a step. Vicky Love is a machine. It only knows what you share with her. There is no additional intelligence involved.

This exercise is meant to explore your <u>high-level</u> vs. <u>low-level</u> approach to the problem, its sequential composition, and orient your attention to <u>details</u>.