W1D1 Algorithms assignment

1. Read contents from referenced links.

1.1 What happens when an assignment is performed without using let or const keywords in strict mode?

Naha: In the old time, JS technically allow to create a varible by only assigning a value without using let or var. It still works now if we don’t put use strict in our scripts to maintain compatibility with old scripts.

It would cause an error in strict mode.

1.2 List 5 reserved keywords in JavaScript.

Naha: break, function, class, else, and continue, case.

1. How is a computer program similar/ different than an algorithm.

Naha:

a), By definition: An algorithm is a sequence of instructions written to perform a specified task; and a computer program is also a sequence of instructions to perform a (some) tasks with computer.

b), Communicating objects: An algorithm is written for communicating between human and human; a computer program is written for communicating between human and computer.

c), Language using: An algorithm uses any human language, like English; a computer program uses certain programming language, such as JavaScript.

1. Write at least two algorithms you perform on your daily life, with at least one algorithm that can be converted to computer program.

Naha:

a) Algorithm to wash hand

•Turn on water

• Rinse your hands for 5 seconds

•Turn off water

•apply soap to your hands

•Lather your hands by rubbing them together with the soap, for 10 seconds

• Lather the backs of your hands, between your fingers, and under your nails for 10 seconds

•Turn on water

• Rinse your hands well under clean, running water for at least 20 seconds

•Turn off water

• Dry your hands using a clean towel or air dry them.

b) Algorithm to driving direction from Point A to Point B (this algorithm that can be converted to computer program)

• Point A is 1000 N 4th St Fairfield, IA

• Point B is Walmart Supercenter 2701 W Burlington Ave, Fairfield, IA

• Start your car at point A

• Head west on Dr Robert Keith Wallace Dr toward N 4th St

• Turn left onto N 4th St and go 0.2 mi

• Continue straight to stay on N 4th St and go 0.3 mi

• Turn right onto W Grimes Ave and go1.4 mi

• Turn left onto N 28th St and go 0.2 mi

• Turn left Destination will be on the left

1. Write the demo code from today’s lesson in VSCode

4.1 Put it in a file, introDemoCode.js, in a folder, w1d1intro

4.2 Commit it to your 301 repository and push it to GitHub

4.3 Also submit your answers to the questions above and the two algorithms as a text file to your GitHub account

Naha: Done as list above.

5. Submit your status report for the day as per the instructions in Resources > assignments