Lab #3 Report

Serial Monitor & Serial Plotter

Names:

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1. Problem Statement

Getting familiar with Arduino Serial Monitor. Getting familiar with Arduino Serial Plotter.

2. Code "GitHub Rebo"

GitHub:
https://github.com/Mohamed-Abdalla-Yassen/Computer-Organization-Projects.git
Arduino web editor:
https://app.arduino.cc/sketches/003090a2-c7aa-451e-baa2-dbae0ddad3b1?view-mode=preview

3. Video "YouTube"

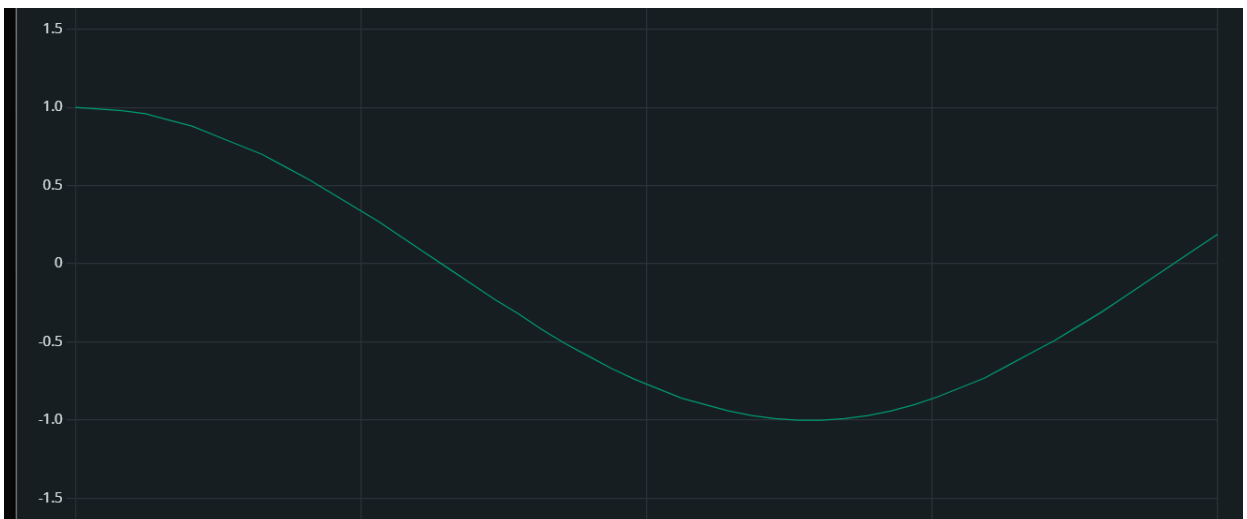https://youtu.be/0elv-YZd4n8?si=neypEiqkic0JYyts

4. Schematic Diagram

There is no schematic diagram in this lab as we didn't use the Breadboard or any components.

5. Description & Challenges

1. Inputting the numbers as desired in the lab as the instruction indicated that the number is up to 4 digits, We made Two codes ones that taking in any number of digits you like and the other only takes up to 4 digits.
2. In The Serial Plotter the function didn't display properly in the serial plotter so we added the two lines X = 1 and X = -1 So that the function is clearly displayed in the serial plotter.

Results:

As Shown above this is the sin wave and we used an incremented of x with 0.1 it was the value that made the curve smooth below that the curve would look more like broken pieces stitched together.