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Project: Final Project (12 Projects)

Design Document

CPE 1040

Designs

Goal

[The goal was to construct a program that would come to benefit someone in a real-life scenario. In that sense, I chose to create a fully functional compass that when active, respectively pointed East, West, North, and South, in accordance to the individual holding the compass. This could come in handy when hiking, or simply wondering in what direction something is.]

Design process

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1. Brian stormed ideas for a project to make (referenced prior activities)
2. Chose Compass idea
3. Sketched an outline for the program
4. Created the program on Visual Studio Code
5. Asked myself questions along the way. For example:
 - a. Do these code fragments belong here?
 - b. Are my variables declared and initialized?
 - c. Do these code fragments make sense?
6. Inserted comments into program while making the program, and after finishing it. To organize myself.
7. After completing the program, double checked for errors such as, syntax, semantics, and other things.
8. Fixed any errors
9. Completed and final-saved the final version of the program

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JS Constructs & objects

[Variables: degrees || Loops: While, if...else || Methods: buttonAPressed, buttonBPressed || Extra: Play tones, plot coordinates, show strings, calibrate compass, pauses, clear screens]