CPE301 – SPRING 2020

Design Assignment 3A

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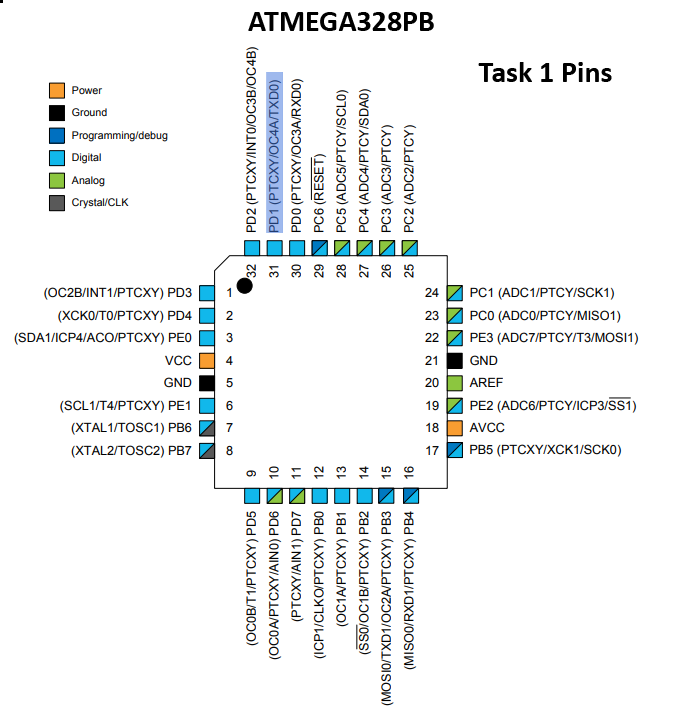
Student Email: Markom1@unlv.nevada.edu

Primary Github address: <https://github.com/mateom99/submission_da>

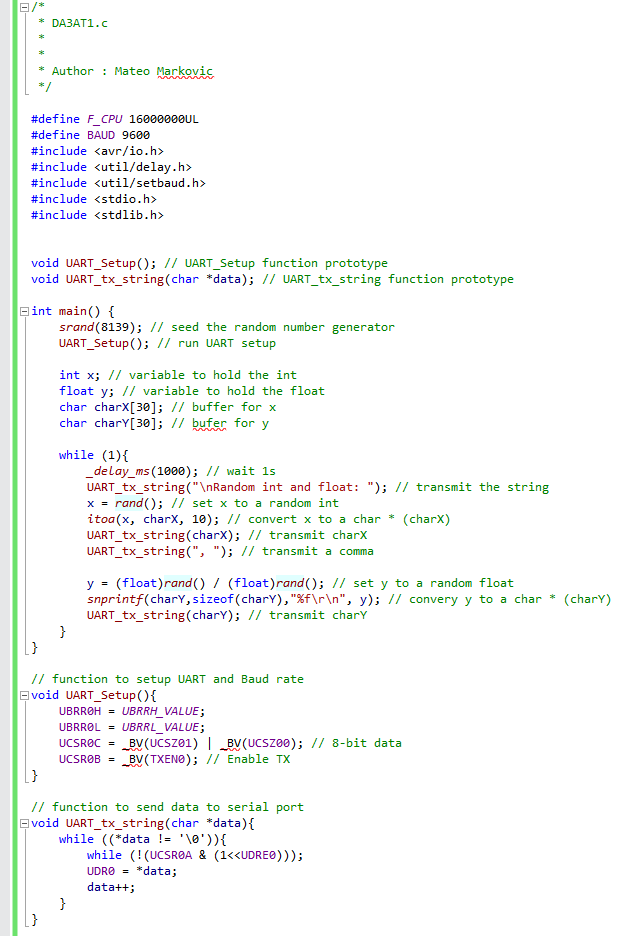
Directory: DesignAssignments/DA3A

1. **COMPONENTS LIST AND CONNECTION BLOCK DIAGRAM w/ PINS**

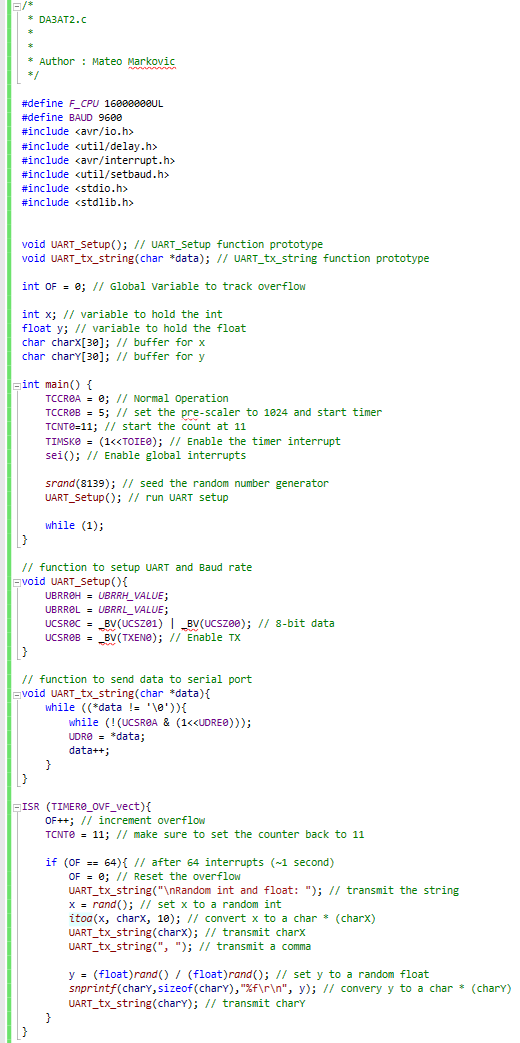
* Atmega328PB-Xmini w/ Atmel Studio 7.0
* Atmega328PB Debugger for Serial to USB output



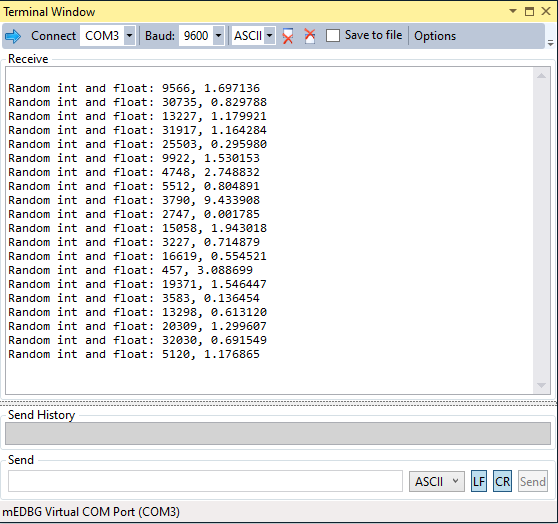
1. **INITIAL/MODIFIED/DEVELOPED CODE OF TASK 1**



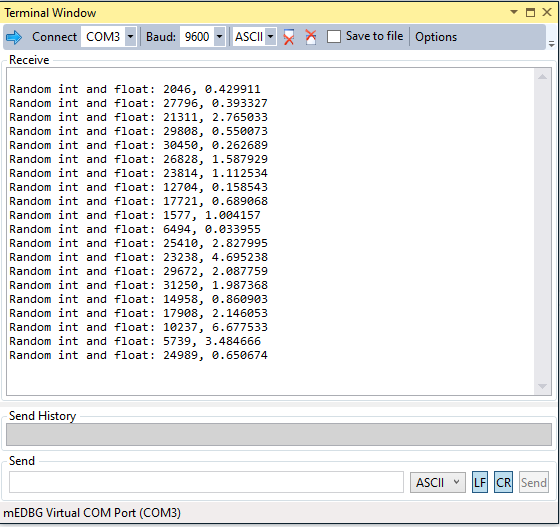
1. **DEVELOPED MODIFIED CODE OF TASK 2 from TASK 1**



**SCREENSHOTS OF EACH TASK OUTPUT (ATMEL STUDIO OUTPUT)**

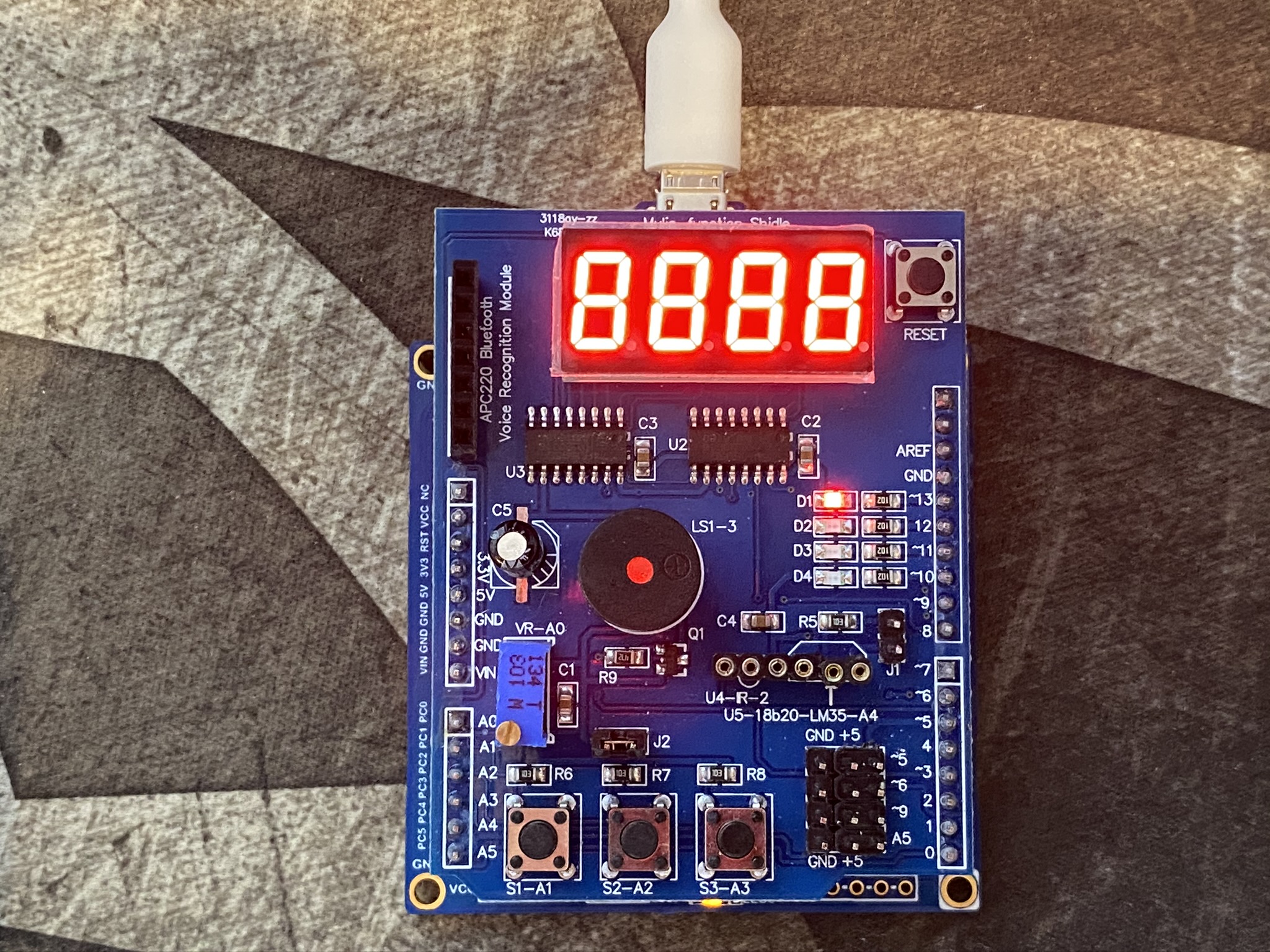
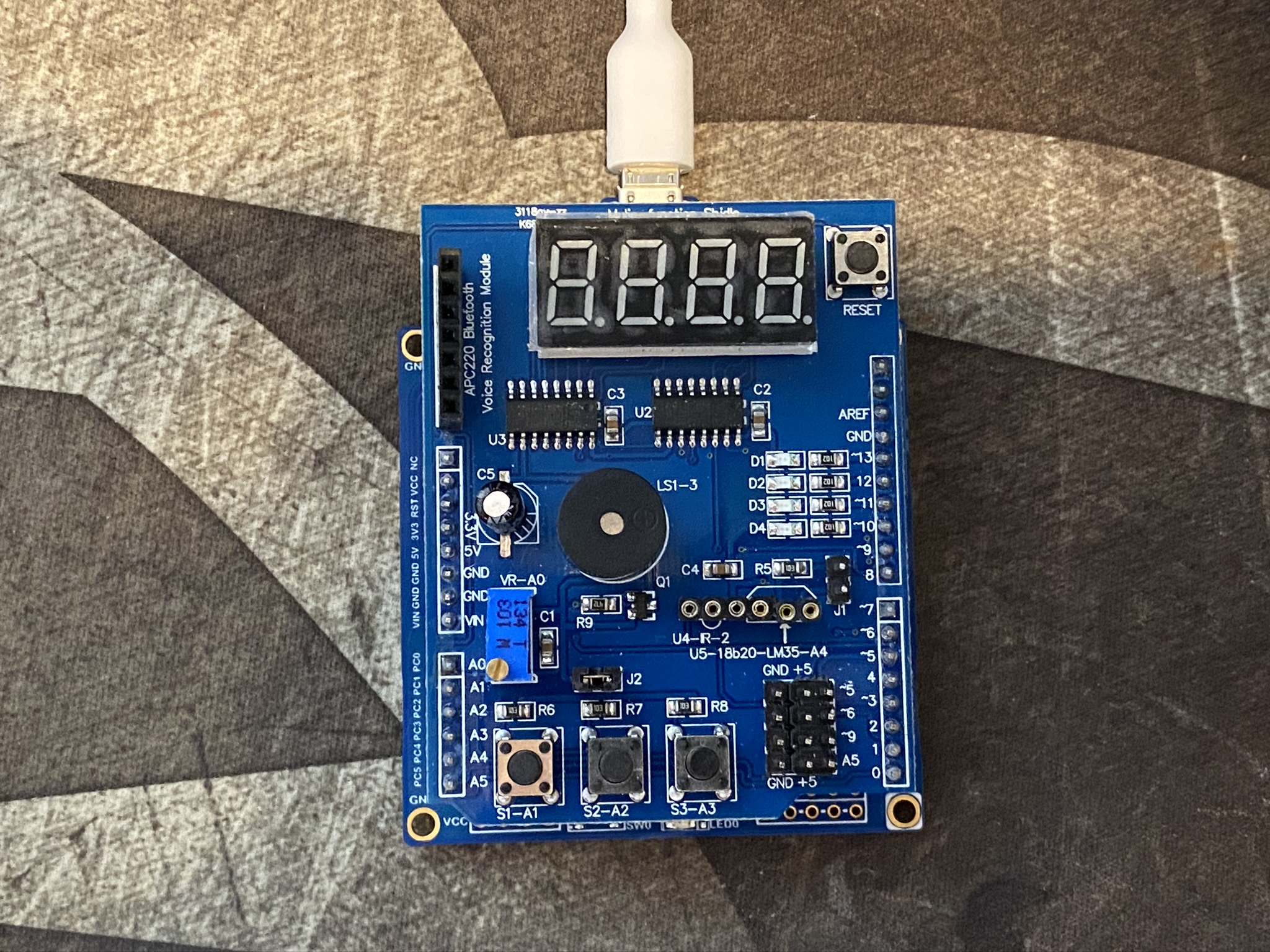


Task 1 Serial Output



Task 2 Serial Output

1. **SCREENSHOT OF EACH DEMO (BOARD SETUP)**



Board with multifunction shield (Off and On)

1. **VIDEO LINKS OF EACH DEMO**

Task 1 Demonstration: <https://youtu.be/bi2a-RPBzlo>

Task 2 Demonstration: <https://youtu.be/EuC4HqDQVAQ>

1. **GITHUB LINK OF THIS DA**

[https://github.com/mateom99/submission\_da/tree/master/DesignAssignments/DA3A](https://github.com/mateom99/submission_da/tree/master/DesignAssignments/DA2CA)

**Student Academic Misconduct Policy**

<http://studentconduct.unlv.edu/misconduct/policy.html>

“This assignment submission is my own, original work”.

Mateo Markovic