BlackHat USA 2023 – Badge CTF

Setup
Guide

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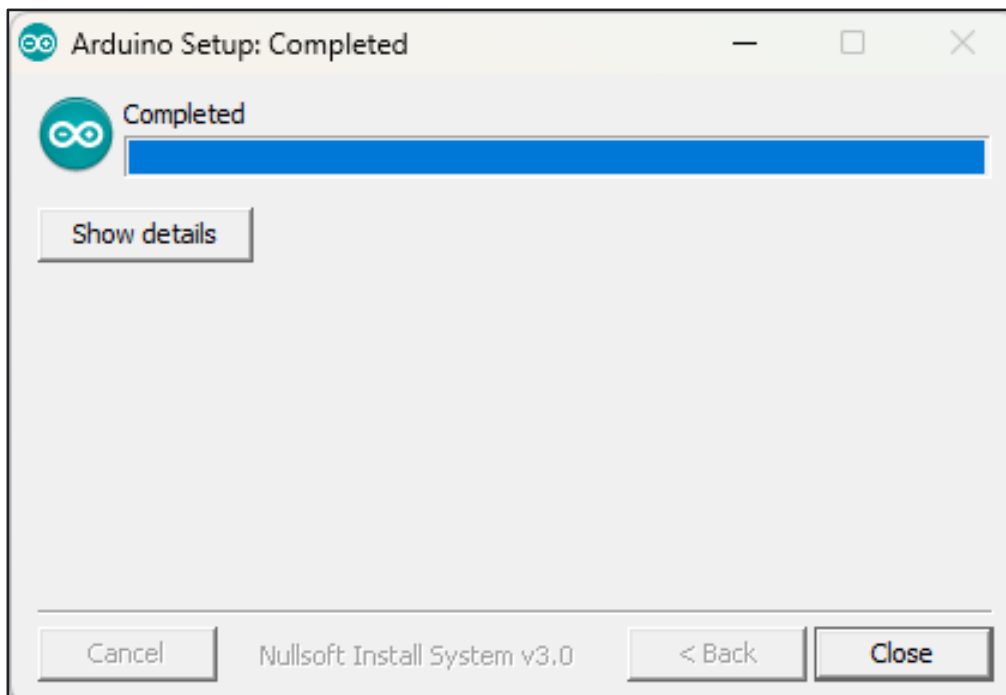**claranet cyber security**

Setup Guide

Step 1: Get the Badge.

Step 2: Download and install the Arduino IDE from these links.

Windows: https://downloads.arduino.cc/arduino-1.8.19-windows.exe

MacOS: https://downloads.arduino.cc/arduino-1.8.19-macosx.zip

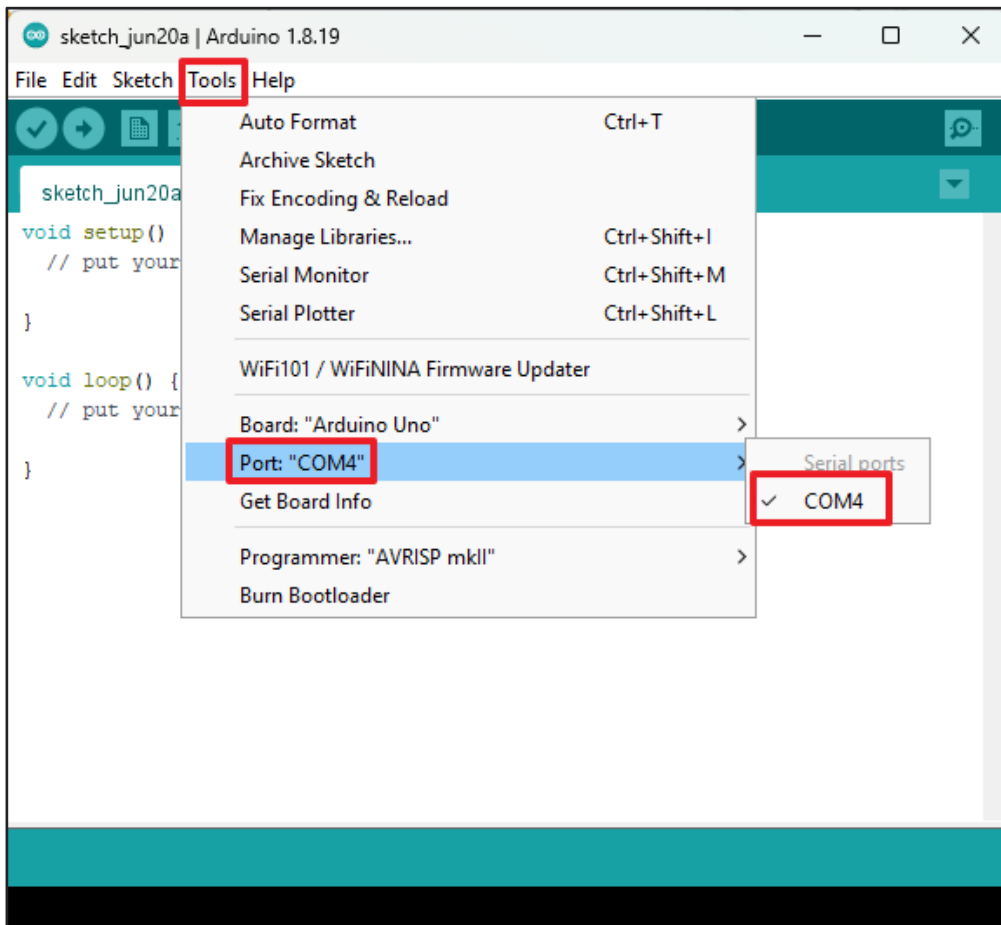**NotSoSecure** part of
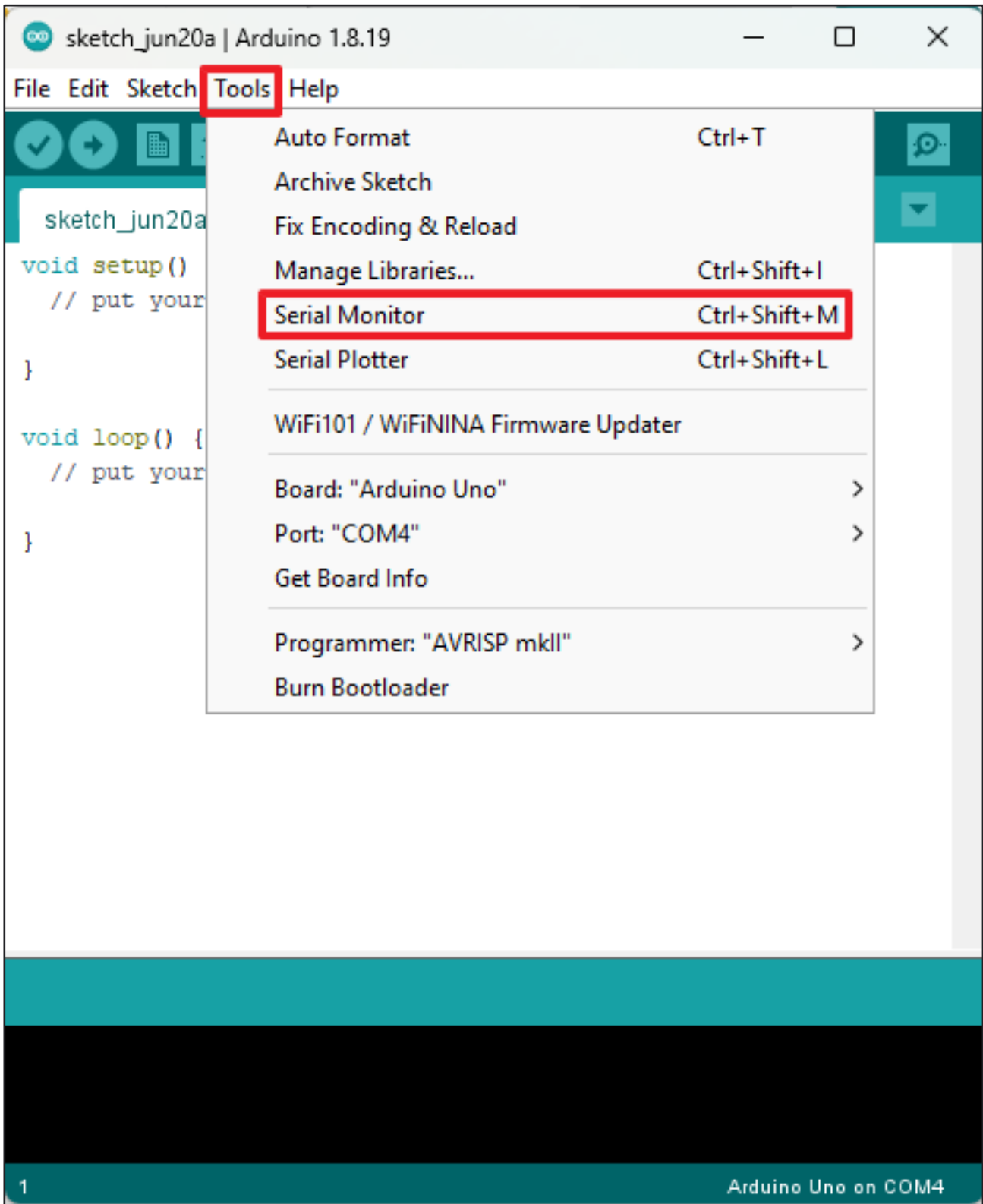**claranet cyber security**

Step 3: <mark>TURN OFF THE BADGE</mark>, then connect the badge to the system using a micro-usb cable.
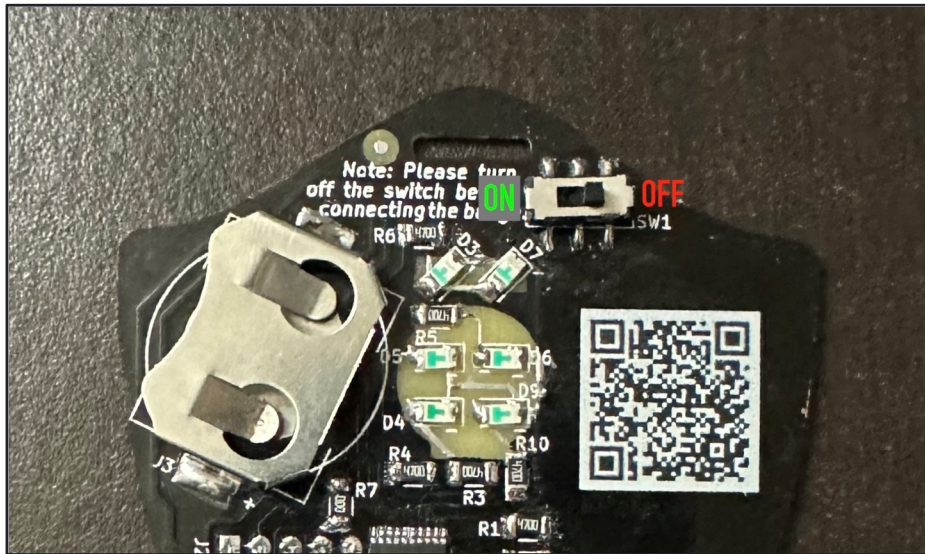
Step 4: Start Arduino IDE, go to the "Tools" menu option and select the Port where the badge is connected.

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Step 5: Go to the "Tools" menu again and click "Serial Monitor".

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Step 6: Keep the Serial Monitor settings as "Newline" and "9600 baud" and uncheck "Show timestamp" and then To start the CTF, type *** and click on "Send" button.
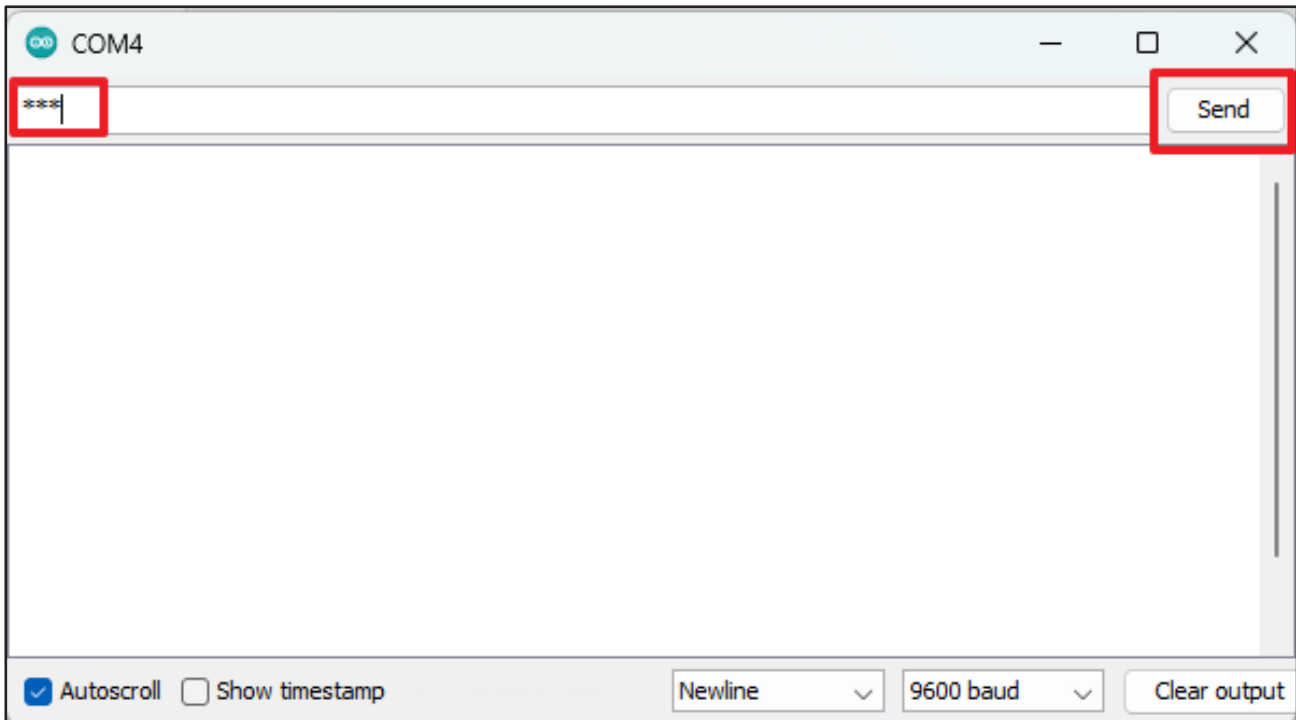
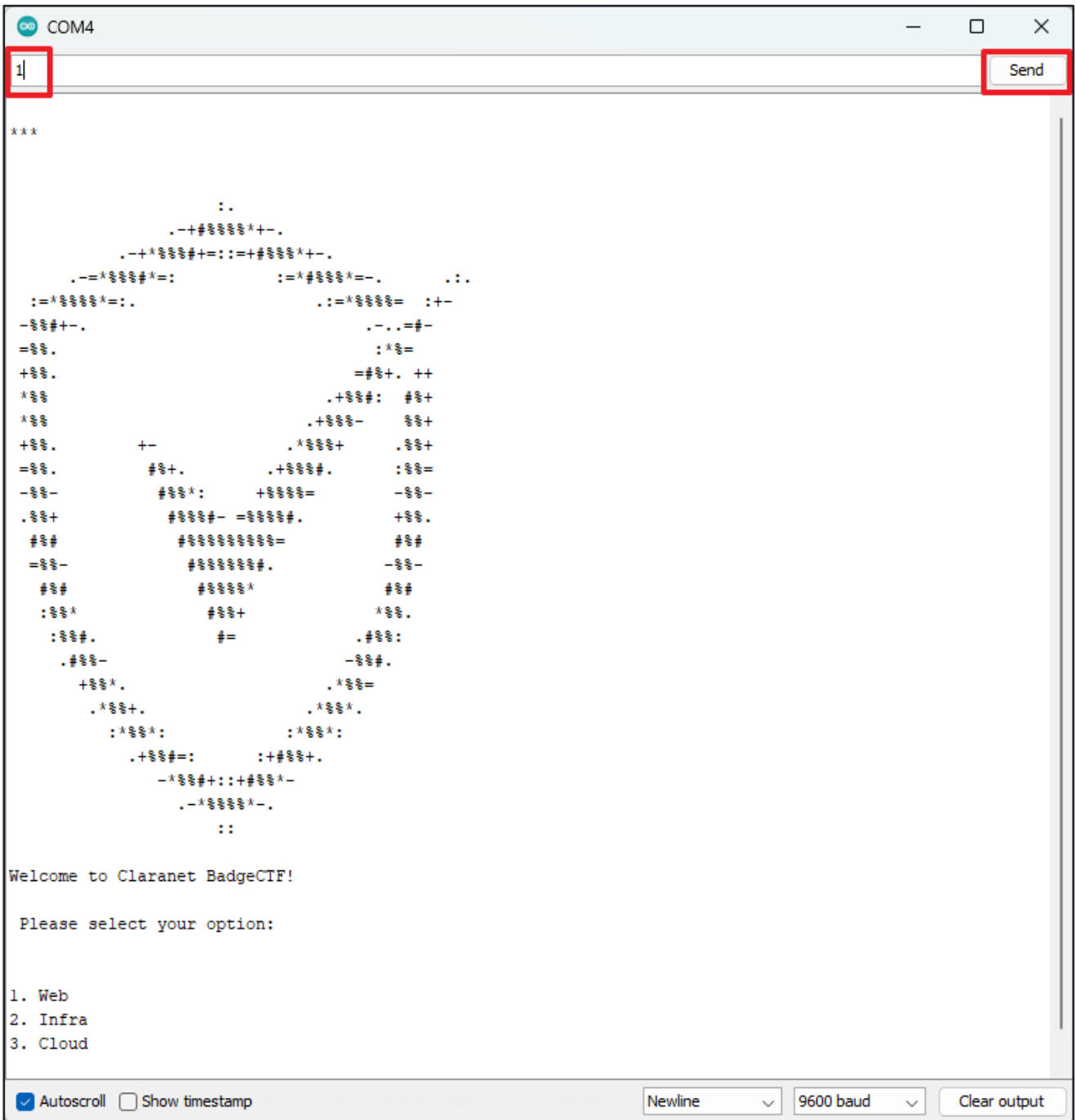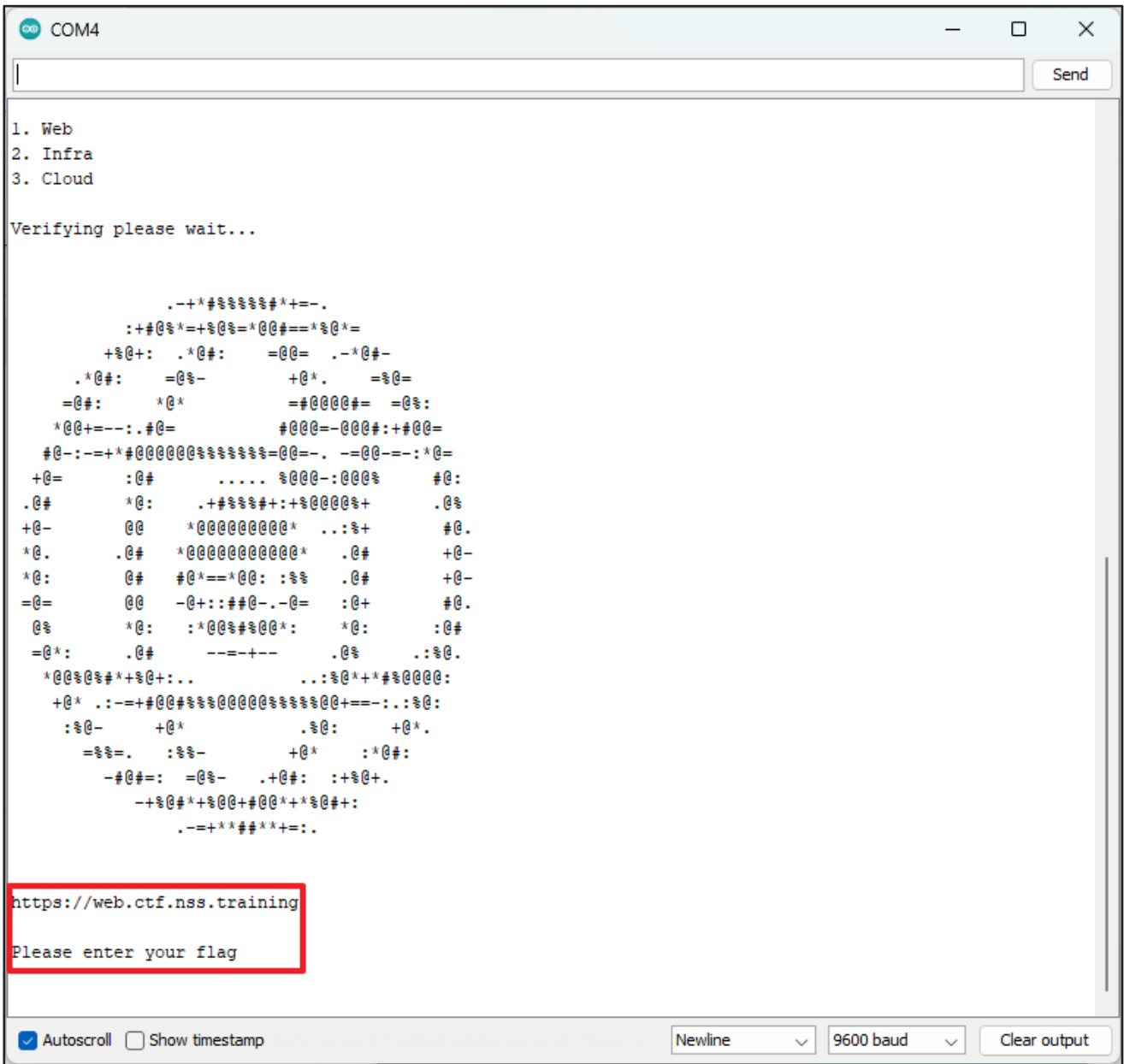**Step 7:** The badge then prints the ASCII art and challenge menu. Select your puzzle choice (send 1, 2 or 3) to print the corresponding puzzle and enter your flag.

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Step 8: For example to submit the web CTF, type "1" and click on "Send" button.

```
COM4                                                                    —    □    ×

1|                                                                          Send

***


                             :.
                        .-+#%%%%*+-.
                   .-+*%%%#+=::=+#%%%*+-.
               .-=*%%%#*=:          :=*#%%%*=-.        .:.
            :=*%%%%*=:.                  .:=*%%%%=  :+-
          -%%#+-.                                  .-..=#-
          =%%.                                      :*%=
          +%%.                                   =#%+. ++
          *%%                                  .+%%#:  #%+
          *%%                                  .+%%%-    %%+
          +%%.         +-             .*%%%+      .%%+
          =%%.        #%+.        .+%%%#.         :%%=
          -%%-        #%%*:     +%%%%=           -%%-
          .%%+         #%%%#- =%%%%#.            +%%.
          #%#           #%%%%%%%%%=              #%#
          =%%-           #%%%%%%#.              -%%-
           #%#            #%%%%*                 #%#
           :%%*            #%%+                  *%%.
            :%%#.           #=                 .#%%:
             .#%%-                            -%%#.
               +%%*.                         .*%%=
                .*%%+.                       .*%%*.
                  :*%%*:                    :*%%*:
                   .+%%#=:          :+#%%+.
                     -*%%#+::+#%%*-
                       .-*%%%%*-.
                          ::

Welcome to Claranet BadgeCTF!

 Please select your option:


1. Web
2. Infra
3. Cloud

☑ Autoscroll  ☐ Show timestamp          Newline  ∨    9600 baud  ∨   Clear output
```

Step 9: It will show the URL where you can capture the flag.

Step 10: Once you submit the correct flag, you will find the success message.

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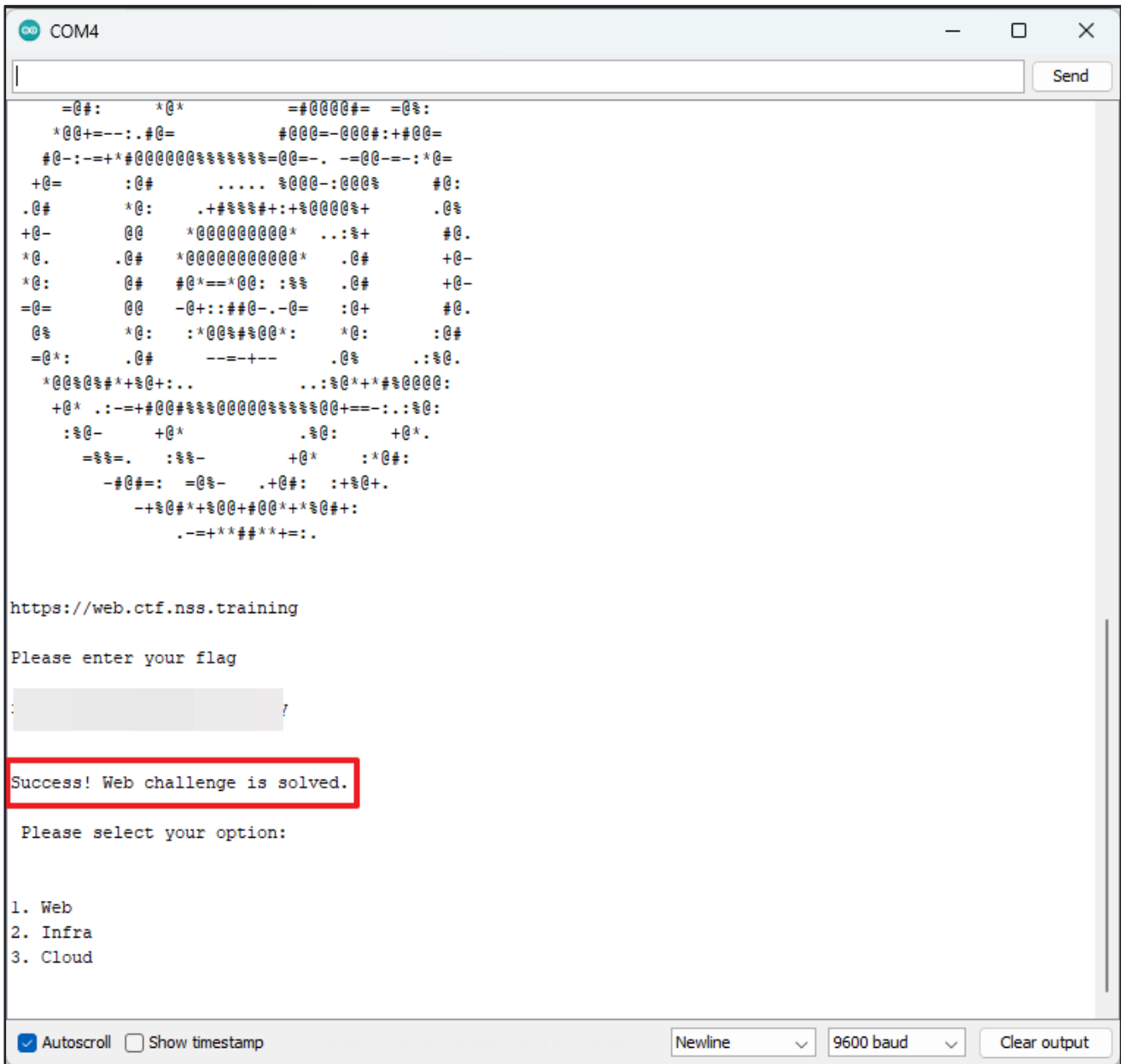
Step 11: Observe the light for web CTF.

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Step 12: Once you submit all the CTF, it will turn on all the lights on the badge.

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Step 13: Find the "GOLDEN STRING" in output which you can submit to following URL:

https://www.claranetcybersecurity.com/bhusa23-badge-submission

Step 14: To reset the badge, send RESET and reconnect the badge to Arduino IDE.

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