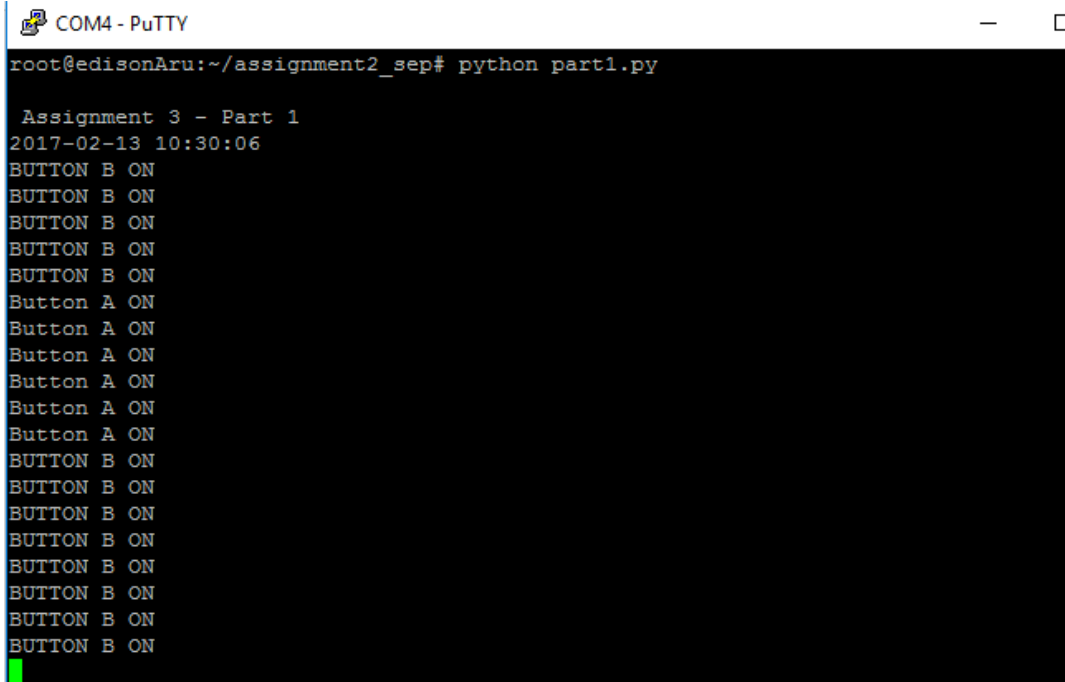# TLEN SECURE EMBEDDED PROGRAMMING – ASSIGNMENT 3

PART1:
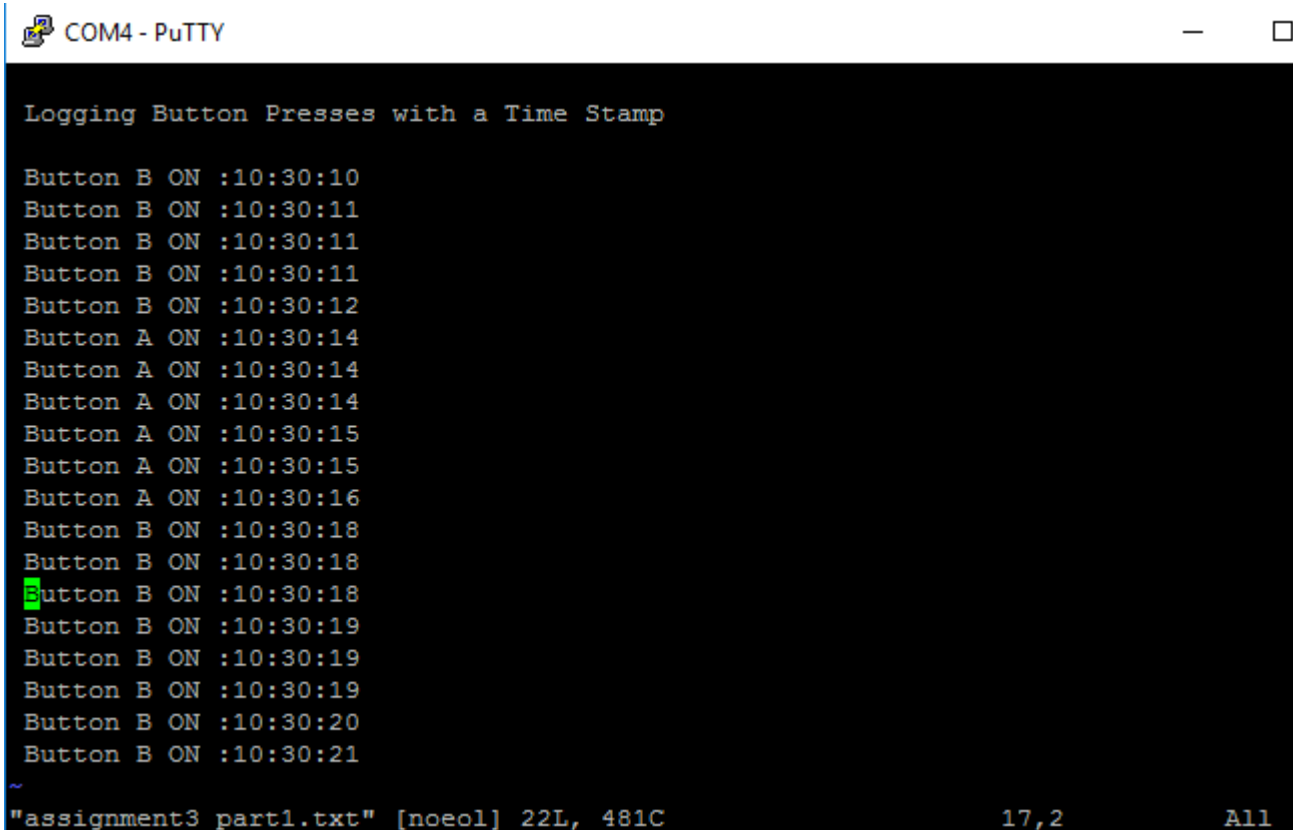
SERIAL SCREEN:

```
COM4 - PuTTY                                          —    □

root@edisonAru:~/assignment2_sep# python part1.py

 Assignment 3 - Part 1
2017-02-13 10:30:06
BUTTON B ON
BUTTON B ON
BUTTON B ON
BUTTON B ON
BUTTON B ON
Button A ON
Button A ON
Button A ON
Button A ON
Button A ON
Button A ON
BUTTON B ON
BUTTON B ON
BUTTON B ON
BUTTON B ON
BUTTON B ON
BUTTON B ON
BUTTON B ON
```

FILE :

```
COM4 - PuTTY                                          —    □

 Logging Button Presses with a Time Stamp

 Button B ON :10:30:10
 Button B ON :10:30:11
 Button B ON :10:30:11
 Button B ON :10:30:11
 Button B ON :10:30:12
 Button A ON :10:30:14
 Button A ON :10:30:14
 Button A ON :10:30:14
 Button A ON :10:30:15
 Button A ON :10:30:15
 Button A ON :10:30:16
 Button B ON :10:30:18
 Button B ON :10:30:18
 Button B ON :10:30:18
 Button B ON :10:30:19
 Button B ON :10:30:19
 Button B ON :10:30:19
 Button B ON :10:30:20
 Button B ON :10:30:21
~
"assignment3_part1.txt" [noeol] 22L, 481C            17,2         All
```

PART2:

SERIAL SCREEN:

```
COM4 - PuTTY                                                    —   □

root@edisonAru:~/assignment2_sep# python part2.py
Button B ON, Glow LED Blue : 10:32:10
Button B ON, Glow LED Blue : 10:32:10
Button B ON, Glow LED Blue : 10:32:11
Button B ON, Glow LED Blue : 10:32:11
Button B ON, Glow LED Blue : 10:32:11
Button B ON, Glow LED Blue : 10:32:12
Button B ON, Glow LED Blue : 10:32:12
Button B ON, Glow LED Blue : 10:32:13
Button B ON, Glow LED Blue : 10:32:13
Button A ON, Glow LED Red : 10:32:14
Button A ON, Glow LED Red : 10:32:15
Button A ON, Glow LED Red : 10:32:15
Button A ON, Glow LED Red : 10:32:15
Button B ON, Glow LED Blue : 10:32:17
Button B ON, Glow LED Blue : 10:32:18
Button B ON, Glow LED Blue : 10:32:18
Button B ON, Glow LED Blue : 10:32:18
Button B ON, Glow LED Blue : 10:32:18
Button A ON, Glow LED Red : 10:32:20
Button B ON, Glow LED Blue : 10:32:22
Button B ON, Glow LED Blue : 10:32:23
Button B ON, Glow LED Blue : 10:32:26
```
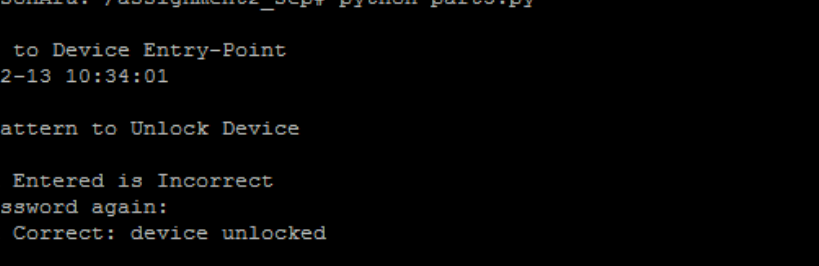
FILE:

```
COM4 - PuTTY                                                    —   □

 Logging Button Presses with a Time Stamp and Glowing Respective LED

 Button A, LED Blue --> ON :10:32:10
 Button A, LED Blue --> ON :10:32:10
 Button A, LED Blue --> ON :10:32:11
 Button A, LED Blue --> ON :10:32:11
 Button A, LED Blue --> ON :10:32:11
 Button A, LED Blue --> ON :10:32:12
 Button A, LED Blue --> ON :10:32:12
 Button A, LED Blue --> ON :10:32:13
 Button A, LED Blue --> ON :10:32:13
 Button A, LED Red --> ON :10:32:14
 Button A, LED Red --> ON :10:32:15
 Button A, LED Red --> ON :10:32:15
 Button A, LED Red --> ON :10:32:15
 Button A, LED Blue --> ON :10:32:17
 Button A, LED Blue --> ON :10:32:18
 Button A, LED Blue --> ON :10:32:18
 Button A, LED Blue --> ON :10:32:18
 Button A, LED Blue --> ON :10:32:18
 Button A, LED Red --> ON :10:32:20
 Button A, LED Blue --> ON :10:32:22
"assignment3_part2.txt" [noeol] 25L, 880C            1,0-1        Top
```

PART3:

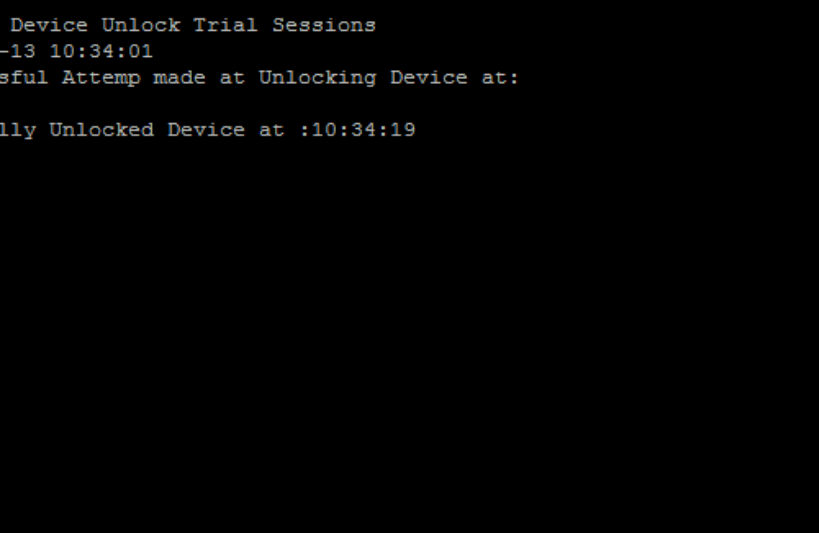- INCORRECT PASSWORD ENTERED ONCE FOLLOWED BY THE RGHT PASSWORD

SERIAL SCREEN

```
COM4 - PuTTY                                                    —    □

root@edisonAru:~/assignment2_sep# python part3.py

 Welcome to Device Entry-Point
  2017-02-13 10:34:01

 Enter Pattern to Unlock Device

Password Entered is Incorrect
Enter password again:
Password Correct: device unlocked
```

FILE:

```
COM4 - PuTTY                                                    —    □

 Logging Device Unlock Trial Sessions
 2017-02-13 10:34:01
 Unsucessful Attemp made at Unlocking Device at:
10:34:10
 Succefully Unlocked Device at :10:34:19
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
"assignment3_part3.txt" [noeol] 6L, 159C          1,0-1          All
```

PART3: FOR THREE CONSECUTIVE WRONG ENTRIES

SERIAL SCRREN:

```
COM4 - PuTTY                                          —    □

root@edisonAru:~/assignment2_sep# python part3.py

 Welcome to Device Entry-Point
  2017-02-13 10:35:58

 Enter Pattern to Unlock Device

Password Entered is Incorrect
Enter password again:
Password Entered is Incorrect
Enter password again:
Password Entered is Incorrect
Enter password again:
3 Unsuccessful Attempts
Alert  Sent
```

FILE:

```
COM4 - PuTTY                                          —    □

 Logging Device Unlock Trial Sessions
 2017-02-13 10:35:58
 Unsucessful Attemp made at Unlocking Device at:
10:36:03
 Unsucessful Attemp made at Unlocking Device at:
10:36:07
 Unsucessful Attemp made at Unlocking Device at:
10:36:12
 Three Failed Attempts to Unlock Device. Disable Locking Mechanism for 30 s
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
"assignment3_part3.txt" 10L, 314C                1,0-1        All
```

EMAIL: