

CSE 101 ASSIGNMENT #2

DUE: November 27 SUNDAY 23:50

MUST BE SUBMITTED TO CLASS TEAMS PAGE.

- you need to submit code
- demo youtube video "link" showing your code is working with you explaining.

ASSIGNMENT:

In this assignment you are required to write a C program on your computer that talks to Arduino in C language. To do that you need to:

- Write a code in C language on your pc to talk to arduino
- Write arduino code on arduino to talk to pc

Your program on PC will have a menu as follows:

```
## WELCOME TO GTU ARDUINO LAB          ##
## STUDENT NAME: HASAN ÖZTÜRK          ##
## PLEASE SELECT FROM THE FOLLOWING     ##
## MENU :                              ##
(1) TURN ON LED ON ARDUINO
(2) TURN OFF LED ON ARDUINO
(3) FLASH ARDUINO LED 3 TIMES
(4) SEND A NUMBER TO ARDUINO TO COMPUTE SQUARE BY ARDUINO
(5) Button press counter (bonus item)
(0) EXIT
PLEASE SELECT:
```

Your program on arduino should not have any menu for user.

Hint: You may use the information at

<https://forum.arduino.cc/index.php?topic=306198.0>

<https://todbot.com/blog/2013/04/29/arduino-serial-updated/>

Or many other resources available on internet

(5) button press counter is a bonus question, requires hardware button connection to an input port. At each press of a button, number sent on computer screen will be incremented by one. We want to see if your program is capable of taking button pushes, that's all.