CSE 101 ASSIGNMENT #4

DUE: December 15 SUNDAY 23:50

MUST BE SUBMITTED TO CLASS ONLINE MOODLE PAGE

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:
a) Write a code in C language on your pc to talk to arduino
b) 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.