Alexandria University
Faculty of Engineering
Computer and Systems Engineering

Computer Organization
Assigned: Sunday 13/11/2022
Due: Sunday 27/11/2022

Microcontroller Lab 7

Objective

Application on IR control.

Remote Control Blink Rate

Use any Infrared remote control (Receiver or TV remote should work) as an indicator to the blink rate of an LED by directing the IR beam to the IR receiver (1838).

You are required to control the delay between blinking using the numbers on the remote control. By pressing '1' the blink rate will be 100ms, by pressing '9' it will be 900ms.

NOTE: In order to read the value of each remote control button you have to use an external library: https://github.com/z3t0/Arduino-IRremote

Please read the library documentation and how to use it since there will be a collision with the RobotIRremote library that comes already with the arduino software. One approach is to delete the RobotIRremote , the other is to simply rename the downloaded library files and includes to another name. You should clearly show the pressing of the remote buttons and their effect on the serial monitor as well as the blinking LED during the discussion. (Use at least 2 blink rates).

Delivery Policy

Each group must submit a recorded video along with a report containing the code.

Due Date: Sunday 27/11/2022

Late delivery = -25% for each day of delay.

Good Luck