



# EE Practical Applications I - Project 05 Traffic light using 3 cascaded 555 monostables

#	Student ID	Student Name	Grade
			(10)
1			

Delivery	Date	

١. يتم تسليم المشروع في خلال أسبوعين من تاريخ عرضة، و يتم حذف درجتان و نصف من المشروع عن كل أسبوع تأخير
 ٢. يتم تسليم المشروع لمعيد المقرر مباشرة



### كلبة المزدسة



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### Objective

To build a functional prototype of simple traffic light using 555 ICs

### Theory

This Traffic Light Circuit can be used to control traffic on roads or in public places. In a Traffic light there are three different color bulb which are Green, Yellow/Amber and Red.

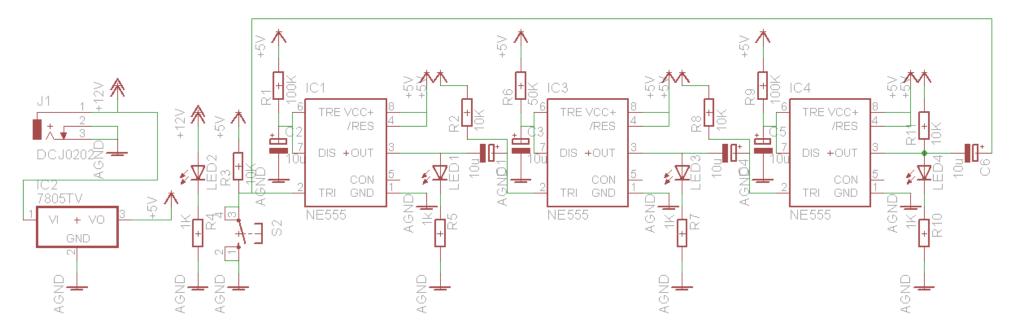
This project uses IC555 as Astable Multivibrator for rapid squire wave pulse generation.

The cascaded monostables blocks are used, each is triggering the next block.





### Schematic





### كلبة المزدسة



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### Components list

#	item	link	Qua
"	100111	HIIK	ntity
1	DC Power 2.1mm Connector on PCB	http://ram-e-shop.com/oscmax/catalog/product info.php?products i d=1203	1
2	L7805CV "Positive Voltage Regulator 5V"	http://ram-e-shop.com/oscmax/catalog/product info.php?products i d=635	1
3	1 K resistor	http://ram-e-shop.com/oscmax/catalog/product info.php?cPath=31_46_6 9&products_id=342	10
4	100K ohm resistor	http://ram-e-shop.com/oscmax/catalog/product_info.php?cPath=31_46_6 9&products_id=383	10
5	10 K resistor	http://ram-e-shop.com/oscmax/catalog/product_info.php?products_id=36 2	10
6	led	http://ram-e-shop.com/oscmax/catalog/product_info.php?cPath=60&product_id=228	1
7	IC 555	http://ram-e-shop.com/oscmax/catalog/product_info.php?products_id=60_9	3
8			
9	press	http://ram-e-shop.com/oscmax/catalog/product info.php?products id=27 14	5
10	Capacitor 10uF 50v	http://ram-e-shop.com/oscmax/catalog/product_info.php?products_id=48  8	10



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11	Led 5mm green	http://ram-e-shop.com/oscmax/catalog/product info.php?cPath=60 &products id=228	10
12	Led 5 mm yellow	http://ram-e-shop.com/oscmax/catalog/product info.php?cPath=60 &products id=229	10
13	Led 5mm Red	http://ram-e-shop.com/oscmax/catalog/product info.php?cPath=60 &products id=227	10





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