

## Target:

Get to know:

- Timer 555, basics of RC circuits, duty cycle and time constant

## Resources:

- [Walid Isaa – \[Arabic - Recommended\]](#)
- [555 Timers || Playlist](#)

## Problems:

- 1- Design a circuit that implements timer 555 in **Monostable state**
- 2- Design a circuit that implements timer 555 in **Astable state**
- 3- Design a circuit that implements timer 555 in **Bistable state**

## Submission:

Send a compressed file named “Task 5 – Your full name” with the following data:

- Your proteus simulation file for each circuit, can you do them all in one?
- A picture (screenshot of the circuit) or a pdf of the schematic of the circuit
- A three-minute or less video of you explaining all circuits and the use of each component

**Note:** Make sure the size of compressed file does not exceed **25Mb**.

## Evaluation:

Each circuit → 2.5 points (total of 7.5)

Explanation video → 2.5 points

## Deadline:

**2 Days** //Sunday – Dec 10<sup>th</sup> at 23:00