

**Department of Computer
Engineering Faculty of
Engineering, University of Jaffna
EC2010 – Computer Programming
Prelab**

Microcontroller Programming with Arduino

Objectives: At the end of this you should be able to:

- Understand the basics of Microcontroller programming.

Submission instructions:

- Any plagiarized work will be given 0 marks.
- Answer all the questions and bring them when you come to Lab 7.
- Your report should include your registration number.

Question 01

The below Image shows an Arduino board with the labels of main components. Briefly explain what are digital pins, analog pins, GND, 5V, 3.3V, power button and reset button.

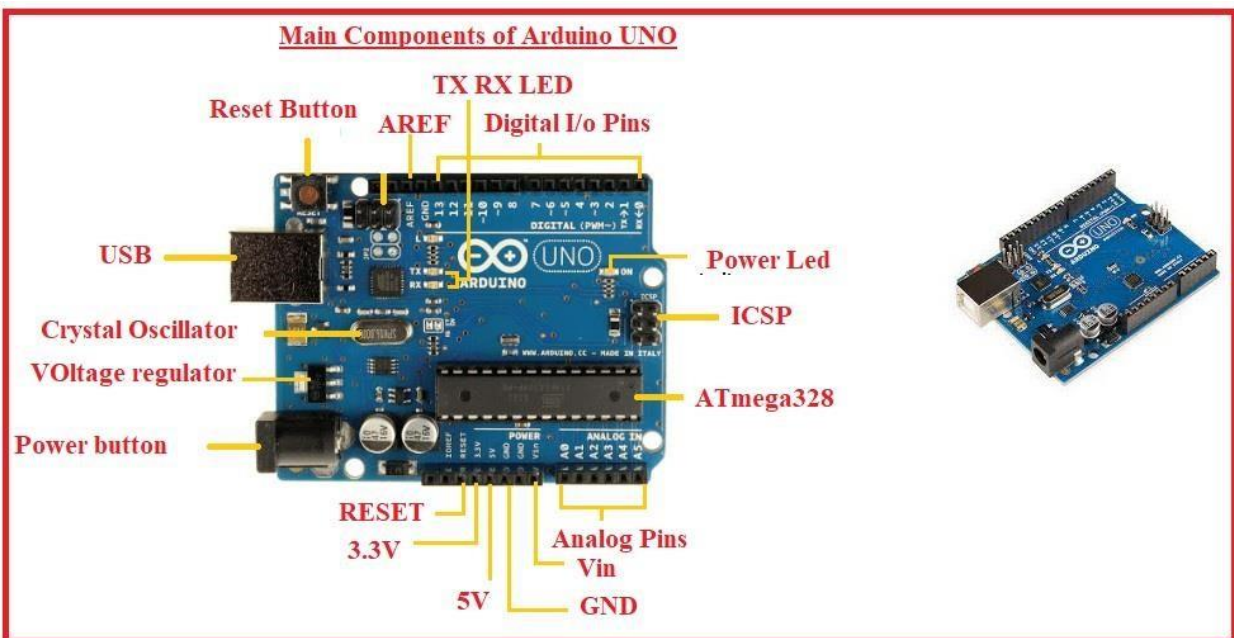


Figure 1: Components of an Arduino Board

Question 2

Sensor is a device, module, machine, or subsystem whose purpose is to detect events or changes in its environment and send the information to the electronics, frequently a processing unit.

Briefly explain what are temperature sensor, ultrasonic sensor, proximity sensor, touch sensor and light sensor.