5/3/2020

MPCA Project Write - Up

Team: Byte Wizards

**PES University Electronic City Campus**

**MPCA Project (4th Semester 2020).**

**Project Title: Arduino Weather Clock**

**Team Name: Byte Wizards**

**Team Size: 3**

**Section: A**

**Semester: 4**

**Team Members:**

1. **Afzal Mukhtar**
2. **Hritika Rahul Mehta**
3. **Shrithva D M**

**Team Details**

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   **Class:** 4th Sem, A
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**Aim:** To learn to make projects in Arduino using certain modules and sensors.

**Components Required:**

1. Arduino Uno
2. DS3231 RTC Module
3. LCD Display
4. Breadboard
5. Connecting Wires

**Summary:**

Arduino is a ARM based microprocessor which can be used to create many devices. It is very versatile due to the components that can be used in addition to it at a cheap cost.

This is a simply Arduino project which will be used to display time along with temperature. The sensors used are clubbed into the latest RTC module itself. This will allow us to make an efficient and energy efficient alarm clock.

The project will use an RTC module to keep track of the date and time even when the Arduino I powered off, due to the embedded battery that comes attached with it. The RTC module has an inbuilt temperature sensor which allows us to monitor the temperature around the RTC module. The LCD display will be used to display the time and temperature that it has measured.

