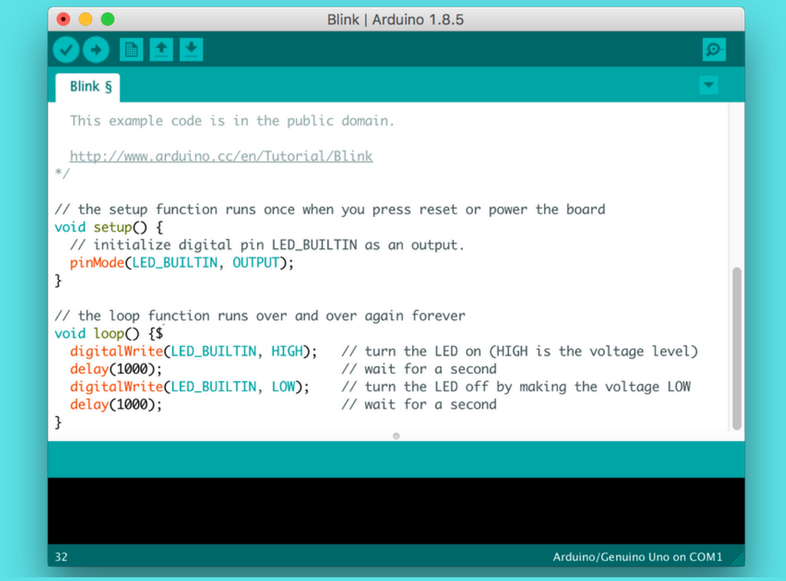
Welcome to the seminar

Introduction to ARDUINO

ARITRA ROY GOSTHIPATY
ECE 4TH YEAR

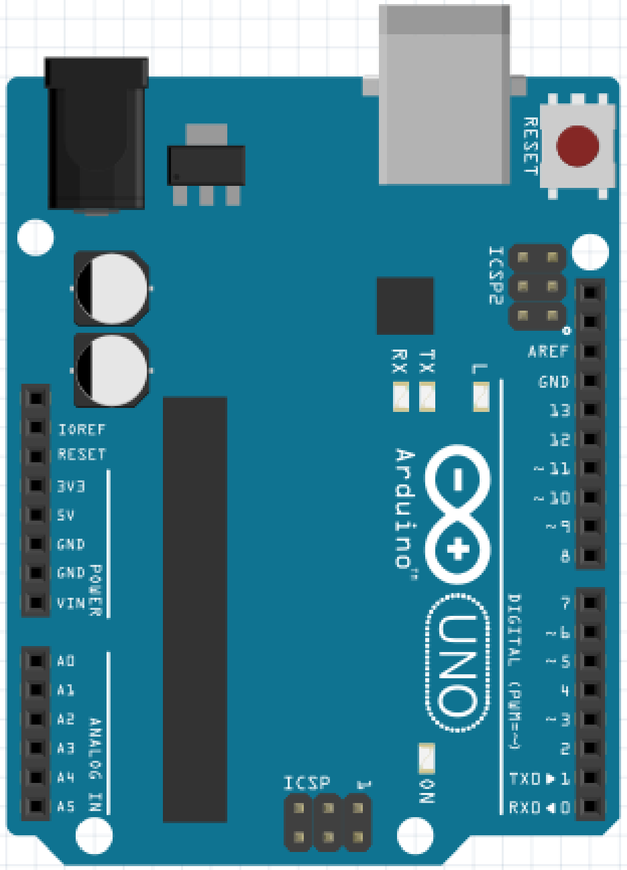
Let's see what it is

Arduino is an **open-source electronics platform** based on easy-to-use **hardware** and **software.**



Arduino UNO Pin Outs

MCU : Atmega 328
Input voltage : 7V-12V
Operating voltage : 5V
CPU Speed : 16MHZ
Analog In/Out : 6/0
Digital IO/PWM :14/6
EEPROM : 1KB
SRAM : 2KB
Flash : 32KB
UART : 1
USB : Regular



ARDUINO PIN		MICROCONTROLLER PIN
0	-	PD0(RXD)
1	-	PD1(TXD)
2	-	PD2(INT0)
3	-	PD3(INT1)
4	-	PD4
5	-	PD5
6	-	PD6
7	-	PD7
8	-	PB0
9	-	PB1
10	-	PB2(SS')
11	-	PB3(MOSI)
12	-	PB4(MISO)
13	-	PB5(SCK)
A0	-	PC0
A1	-	PC1
A2	-	PC2
A3	-	PC3
A4	-	PC4(SDA)
A5	-	PC5(SCL)

A Little about PWM

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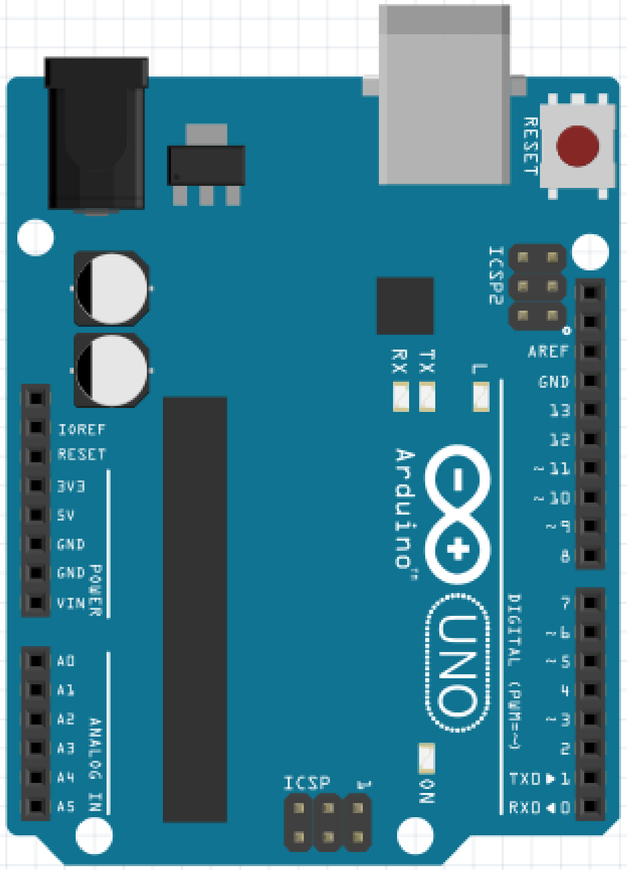

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A5	-	PC5(SCL)

Installation of IDE

https://www.arduino.cc/en/main/software

C

Things to cover:

- `variables`
- `functions`
- `loops`
- `main()`

C for Arduino

Things to cover:

- `setup()`
- `loop()`

Places you would find me

/ariG23498

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