### **PWM-Anuduino**

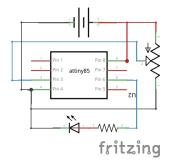
# Overview of the experiment

Anuduino has 3 analog pins which can be used for analog input. These inputs take a voltage(0 to 5V) and convert it to a digital number between 0(0 volts) and 1023(5 volts) (10 bits of resolution). A very useful device that exploits these inputs is a potentiometer. When it is connected with 5 volts across its outer pins the middle pin will read some value between 0 and 5 volts dependent on the angle to which it is tuned(ie 2.5 volts in the middle). we can then use the returned values as a variable in our program.

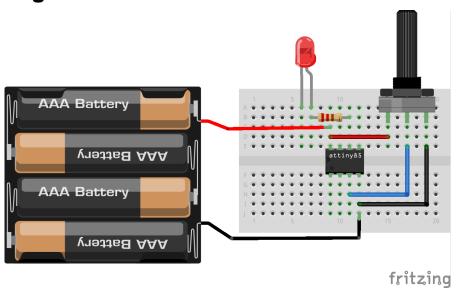
### **Components required**

- Breadboard \*1
- Attiny85 \*1
- LED \*1
- Potentiometer(10k) \*1
- Resistor(470 ohm) \*1

#### **Schematic**



# **Circuit Diagram**



## Code