

```
unsigned long timer; //initialize the timer

void setup() {
    timer = millis(); //set the timer equal to the number of milliseconds since
the program started
    Serial.begin(9600); //initialize the serial port and sets the baud rate to
9600
    analogReference(EXTERNAL); initialize the analog port as an external
}

void loop() {
    if ((millis() - timer) >= 500) { //checks if the over half a second has
passed
        int AnalogRead = analogRead(0); //sets analogRead to the value read of
port 0
        Serial.print(5*(float)AnalogRead / 1024.0); //prints and calculate the
voltage
        timer += 500; //increments the timer by 500 milliseconds
    }
}
```