

```
void setup()
{

    Serial.begin(9600); //Serial for debugging
    // initialize digital pin LED_BUILTIN as an output.
    pinMode(pinA4, OUTPUT);
}
unsigned long StartTime = millis();
int i = 0;

void loop()
{

    while (1)
    {
        // Waveplate 4
        unsigned long CurrentTime = millis();

        analogReadResolution(32);
        val = analogRead(analogPin); // read the input pin

        if(val < 2147483648){
            Serial.println(LOW);
            Serial.print("Current time: ");
            Serial.println(CurrentTime);
        }
        else
            Serial.println(HIGH);
            Serial.print("Current time: ");
            Serial.println(CurrentTime);
    }

}
```