**For countdown**

#include <TM1638.h>

// define a module on data pin 8, clock pin 9 and strobe pin 10

TM1638 module(8, 9, 10);

unsigned long a=1;

void setup()

{

}

void loop()

{

for (a=1; a<=100; a++)

{

module.setDisplayToDecNumber(a,0,false);

delay(100);

}

module.setDisplayToString("Complete");

delay(1000);

}

**For buttons**

#include "TM1638.h"

// define the first module

TM1638 module1(8, 9, 7);

void setup()

{

Serial.begin(9600);

}

void loop()

{

byte key1;

// read the buttons from the first module

key1 = module1.getButtons();

if(key1!=0){

Serial.println(key1);

delay(300);

}

}

byte key1;

// read the buttons from the first module

key1 = module.getButtons();

if(key1==2){

module.setDisplayToString("SET MODE");

if(key1==4){

a = a+1;

module.setDisplayToDecNumber(a,0,false);

}

If(key1==8){

a=a-1;

module.setDisplayToDecNumber(a,0,false);

}

}

**FOR LIGHTS**

**if (key1!=1) {**

**module.setLEDs(key1); //key1 is int value(0,1,2,4,8,16,32,64,128);**

**}**

**else{**

**module.setLEDs(0);**

**}**