New Gen Thermal Detonator Animation V1

BOM

- 10 5mm LED's
- Arduino Nano
- Fridge door switch
- 9V Batttery
- Switch Holder - Printed
- LED Holder – Printed

The LED's and the Arduino Nano were sourced from AliExpress, here are the links to the parts I used.
https://a.aliexpress.com/_EQeywrv
https://a.aliexpress.com/_EvGmUfN

I sourced the switch from Amazon, of course if you use a different switch the holder will need to change accordingly, here is the link to the one I used.
https://www.amazon.co.uk/dp/B07QS85BYW?ref=ppx_pop_mob_ap_share

The two STL's are on Thingiverse here

https://www.thingiverse.com/thing:6667409

Arduino Code

I used Pins 3 to 12 on the Arduino Board and here is the code.

```
int LED1 = 12;
int LED2 = 11;
int LED3 = 10;
int LED4 = 9;
int LED5 = 8;
int LED6 = 7;
int LED7 = 6;
int LED8 = 5;
int LED9 = 4;
int LED10 = 3;
int DELAY = 50;
int DELAY2 = 250;

void setup() {
  pinMode(LED1, OUTPUT);
  pinMode(LED2, OUTPUT);
  pinMode(LED3, OUTPUT);
```

```
      pinMode(LED4, OUTPUT);
      pinMode(LED5, OUTPUT);
      pinMode(LED6, OUTPUT);
      pinMode(LED7, OUTPUT);
      pinMode(LED8, OUTPUT);
      pinMode(LED9, OUTPUT);
      pinMode(LED10, OUTPUT);
  }
  void loop() {
    do {
      digitalWrite(LED1, HIGH);
      delay(DELAY);
      digitalWrite(LED1, LOW);
      delay(DELAY);
      digitalWrite(LED2, HIGH);
      delay(DELAY);
      digitalWrite(LED2, LOW);
      delay(DELAY);
      digitalWrite(LED3, HIGH);
      delay(DELAY);
      digitalWrite(LED3, LOW);
      delay(DELAY);
      digitalWrite(LED4, HIGH);
      delay(DELAY);
      digitalWrite(LED4, LOW);
      delay(DELAY);
      digitalWrite(LED5, HIGH);
      delay(DELAY);
      digitalWrite(LED5, LOW);
      delay(DELAY);
      digitalWrite(LED6, HIGH);
      delay(DELAY);
      digitalWrite(LED6, LOW);
      delay(DELAY);
      digitalWrite(LED7, HIGH);
      delay(DELAY);
      digitalWrite(LED7, LOW);
      delay(DELAY);
      digitalWrite(LED8, HIGH);
      delay(DELAY);
      digitalWrite(LED8, LOW);
      delay(DELAY);
      digitalWrite(LED9, HIGH);
      delay(DELAY);
      digitalWrite(LED9, LOW);
      delay(DELAY);
      digitalWrite(LED10, HIGH);
      delay(DELAY);
```

```cpp
  digitalWrite(LED10, LOW);
  delay(DELAY);
  DELAY = DELAY - 5;
} while (DELAY > 5);
do {
  digitalWrite(LED1, HIGH);
  digitalWrite(LED2, HIGH);
  digitalWrite(LED3, HIGH);
  digitalWrite(LED4, HIGH);
  digitalWrite(LED5, HIGH);
  digitalWrite(LED6, HIGH);
  digitalWrite(LED7, HIGH);
  digitalWrite(LED8, HIGH);
  digitalWrite(LED9, HIGH);
  digitalWrite(LED10, HIGH);
  delay(DELAY2);
  digitalWrite(LED1, LOW);
  digitalWrite(LED2, LOW);
  digitalWrite(LED3, LOW);
  digitalWrite(LED4, LOW);
  digitalWrite(LED5, LOW);
  digitalWrite(LED6, LOW);
  digitalWrite(LED7, LOW);
  digitalWrite(LED8, LOW);
  digitalWrite(LED9, LOW);
  digitalWrite(LED10, LOW);
  delay(DELAY2);
  DELAY2 = DELAY2 - 50;
} while (DELAY2 > 50);
digitalWrite(LED1, HIGH);
digitalWrite(LED2, HIGH);
digitalWrite(LED3, HIGH);
digitalWrite(LED4, HIGH);
digitalWrite(LED5, HIGH);
digitalWrite(LED6, HIGH);
digitalWrite(LED7, HIGH);
digitalWrite(LED8, HIGH);
digitalWrite(LED9, HIGH);
digitalWrite(LED10, HIGH);
delay(2500);
digitalWrite(LED1, LOW);
digitalWrite(LED2, LOW);
digitalWrite(LED3, LOW);
digitalWrite(LED4, LOW);
digitalWrite(LED5, LOW);
digitalWrite(LED6, LOW);
digitalWrite(LED7, LOW);
digitalWrite(LED8, LOW);
```

```
  digitalWrite(LED9, LOW);
  digitalWrite(LED10, LOW);
  delay(2500);
  digitalWrite(LED1, HIGH);
  digitalWrite(LED2, HIGH);
  digitalWrite(LED3, HIGH);
  digitalWrite(LED4, HIGH);
  digitalWrite(LED5, HIGH);
  digitalWrite(LED6, HIGH);
  digitalWrite(LED7, HIGH);
  digitalWrite(LED8, HIGH);
  digitalWrite(LED9, HIGH);
  digitalWrite(LED10, HIGH);
  delay(20000000000);
}
```

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