Requirements:

1. Write an Arduino program to flash your name in Morse Code using external LEDs.
2. Define and use a procedure called “dash” that does the following:
   1. Flashes a green LED for 750 milliseconds (3/4 second).
   2. Uses a global variable to determine the pin number for the green LED
   3. Uses a parameter variable to determine the number of times to flash the LED.
3. Define and use a procedure called “dot” that does the following:
   1. Flashes a red LED for 250 milliseconds (1/4 second).
   2. Uses a global variable to determine the pin number for the red LED
   3. Uses a parameter variable to determine the number of times to flash the LED.
4. Define and use a procedure called “blank” that does the following:
   1. Turns off both LEDs for 1000 milliseconds (1 second).
   2. Represents a Morse Code space between letters.
5. Demonstrate your completer program to Mr. Nestor
6. Upload your completed program to your repository with the file name “Morse Code Challenge”.

Level Scoring:

* Level 4 – Complete the challenge in 1 day
* Level 3 – Complete the challenge in 2 days
* Level 2 – Complete the challenge in 3 days
* Level 1/R – Do not complete the challenge in 3 days

**Morse code for name**

Down below

int GreenLED = 12;

int RedLED = 11;

void setup()

{

pinMode(GreenLED, OUTPUT);

pinMode(RedLED, OUTPUT);

}

void loop()

{

dot(); dash(); dash(); dash(); blank(); //j

dot(); dot(); dash(); blank(); //u

dot(); dash(); dash(); dash(); blank(); //j

dot(); dot(); dot(); dot(); blank(); //h

dot(); dash(); blank(); //a

dot(); dash(); dot(); blank(); //r

}

int dash() {

digitalWrite(GreenLED, HIGH);

delay(750);

digitalWrite(GreenLED, LOW);

delay(750);

}

int dot() {

digitalWrite(RedLED, HIGH);

delay(250);

digitalWrite(RedLED, LOW);

delay(250);

}

int blank() {

digitalWrite(GreenLED, LOW);

digitalWrite(RedLED, LOW);

delay(1000);

}