**Module B.4 Simple Procedure**

**Level 3**

int YellowLED = 12;

int RedLED = 11;

long randOn = 0;

long randOff = 0;

void setup()

{

 randomSeed (analogRead (0));

 pinMode(YellowLED, OUTPUT);

 pinMode(RedLED, OUTPUT);

 Serial.begin(9600);

}

void loop(){

 int value = random(1, 10);

 int led = random(11, 13);

 int timesBlinked = blink(value,led);

  Serial.print("The LED was SUPPOSED to blink ");

  Serial.print(timesBlinked);

  Serial.print(" times BUT only blinked ");

  Serial.println(timesBlinked);

  delay(1000);

}

int blink(int value,int led) {

  for (int i = 0; i < value; i++) {

    randOff = random (200, 900);

    digitalWrite(led, HIGH);   // turn the LED on (HIGH is the voltage level)

    delay(1000);                       // wait for a second

    digitalWrite(led, LOW);    // turn the LED off by making the voltage LOW

    delay(randOff);                       // wait for a second

  }

  Serial.print("The LED blinked ");

  Serial.print(value);

  Serial.println(" times.");

  Serial.print(led);

  return value;

}