Level 2

// global variable for a number of times to blink the LED

int times = 5;

int YellowLED =12;

int RedLED =11;

// the setup function runs once when you press reset or power the board

void setup() {

  // initialize digital pin LED\_BUILTIN as an output.

  pinMode(LED\_BUILTIN, OUTPUT);

  Serial.begin(9600);

}

// the loop function runs over and over again forever

void loop() {

  int timesBlinked = blink(4,LED\_BUILTIN);

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

  Serial.print(times);

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

  Serial.println(timesBlinked);

  delay(1000);

}

// a new procedure defined by you to blink the LED

int blink(int value,int led) {

  for (int i = 0; i < times; i++) {

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

    delay(500);                       // wait for a second

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

    delay(500);                       // wait for a second

  }

  Serial.print("The LED blinked ");

  Serial.print(times);

  Serial.println(" times.");

  return times;

}