Module B.4 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;

}