**Module B.4 Simple Procedure**

**Level 0: Sample Program Question 3**

  int timesBlinked = blink(4)

int blink(int value) {

  int times = value;

 The int blink value is four so, the int blink changed the int value changing it to four so it continued blinking four times.

**Level 1: Variable Scope**

1. Complete
2. When we took out line number 24, the LED blinked 5 times. And before taking it out it blinked 4 times.
3. When line number 24 was a part of the code, it was checking the value of the timesblinked command which was on line 14. After removing line 24 the program checked line 2 which was set to 5

**Level 2: Adding Colored LEDs**

1. Complete
2. Complete
3. Complete

4. int YellowLED =12;

int RedLED =11;

void setup() {

  pinMode(YellowLED, OUTPUT);

  pinMode(RedLED, OUTPUT);

  Serial.begin(9600);

}

void loop() {

  int timesBlinked = blink(4,YellowLED);

  timesBlinked = blink(5,RedLED);

  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++) {

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

    delay(500);                       // wait for a second

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

    delay(500);                       // wait for a second

  }

  Serial.print("The LED blinked ");

  Serial.print(value);

  Serial.println(" times.");

  return value;

}