**Midterm Programming Test – Version C**

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

int times = 5;

int redled= 11;

int Greenled=10;

int button\_state = HIGH ||LOW;

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

void setup() {

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

pinMode(redled, OUTPUT);

pinMode(Greenled, OUTPUT);

Serial.begin(9600);

}

// the loop function runs over and over again forever

void loop() {

int timesBlinked = blink(4);

Serial.println("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) {

for (int i = 0; i < times; i++) {

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

delay(500); // wait for half a second

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

delay(4000); // wait for three second

}

{

if (button\_state == "HIGH"); // Turns on the LED

digitalWrite(redled, HIGH);

delay(100);

digitalWrite(redled, LOW);

if (button\_state == "LOW");

digitalWrite(Greenled, HIGH);

delay(4000);

digitalWrite(Greenled, LOW);

}

}