//frequency = 490.2 Hz, Duty=30%

float dutyCycle=0.30;

int pwmPin=9;

void setup() {

// put your setup code here, to run once:

pinMode(pwmPin, OUTPUT);

}

void loop() {

// put your main code here, to run repeatedly:

analogWrite(pwmPin,dutyCycle\*255);

}

//frequency of around 976.56 Hz and dutyCycle of 0.3

float dutyCycle=0.30;

int pwmPin=5;

void setup() {

// put your setup code here, to run once:

pinMode(pwmPin, OUTPUT);

}

void loop() {

// put your main code here, to run repeatedly:

analogWrite(pwmPin,dutyCycle\*255);

}

//frequency = 490 Hz

int pwmPin=9;

void setup() {

// put your setup code here, to run once:

pinMode(pwmPin, OUTPUT);

}

void loop() {

// put your main code here, to run repeatedly:

analogWrite(pwmPin,analogRead(A0)/4);

}

int LED=9;

int Delay=30;

int dutyCycle=0;

void setup() {

// put your setup code here, to run once:

pinMode(LED,OUTPUT);

}

void loop() {

// put your main code here, to run repeatedly:

dutyCycle=0;

for (int i=0;i<17;i++){

dutyCycle=dutyCycle+15;

analogWrite(LED,dutyCycle);

delay(Delay);

}

for (int j=0;j<17;j++){

dutyCycle=dutyCycle-15;

analogWrite(LED,dutyCycle);

delay(Delay);

}

delay(500);

}

int LED=9;

int Delay=30;

int dutyCycle=0;

void setup() {

// put your setup code here, to run once:

pinMode(LED,OUTPUT);

}

void loop() {

// put your main code here, to run repeatedly:

fade(3);

delay(2000);

}

void fade(int n){

for (int k=1;k<=n;k++){

dutyCycle=0;

for (int i=0;i<17;i++){

dutyCycle=dutyCycle+15;

analogWrite(LED,dutyCycle);

delay(Delay);

}

for (int j=0;j<17;j++){

dutyCycle=dutyCycle-15;

analogWrite(LED,dutyCycle);

delay(Delay);

}

delay(500);

}

}

//frequency of around 31.372 kHz and dutyCycle of 0.3

float dutyCycle=0.30;

int pwmPin=9;

void setup() {

// put your setup code here, to run once:

pinMode(pwmPin, OUTPUT);

TCCR1B = TCCR1B & B11111000 | B00000001;

}

void loop() {

// put your main code here, to run repeatedly:

analogWrite(pwmPin,dutyCycle\*255);

}