LAMPIRAN

Program Control Mikrophone Utama

```
//INPUT
const int b1 = 2;
const int b2 = 3;
const int b3 = 4;
const int b4 = 5;
const int b5 = 6;

//OUTPUT
const int led1 =  9;
const int led2 =  10;
const int led3 =  11;
const int led4 =  12;
const int led5 =  13;

//variabel
int nyala1,nyala2,nyala3,nyala4,nyala5;
unsigned long t1,t2,t3,t4,t5;
int x1,x2,x3,x4,x5;
int micon;

void setup() {
pinMode (2, INPUT);
pinMode (3, INPUT);
pinMode (4, INPUT);
pinMode (5, INPUT);
pinMode (6, INPUT);


pinMode (9, OUTPUT);
pinMode (10, OUTPUT);
pinMode (11, OUTPUT);
pinMode (12, OUTPUT);
pinMode (13, OUTPUT);

nyala1=0;
nyala2=0;
nyala3=0;
nyala4=0;
nyala5=0;
micon=0;
```

```arduino
Serial.begin(9600);
}

void loop(){
//tombol 1
x1=digitalRead(b1);
if ((x1==1) && (nyala1==0)  && (micon<2)){
   t1=millis();
   digitalWrite(9, HIGH);
   nyala1=1;
   micon ++;
//   Serial.println(x);
   x1=0;
   delay(300);
}
if((nyala1==1) && ((x1==1) || ((millis()-t1) > 120000)) ){
    digitalWrite(9,LOW);
     nyala1=0;
    t1=millis();
 //   Serial.println(x);
   micon --;
   x1=0;
   delay(300);
}

 //tombol 2
x2=digitalRead(b2);
if ((x2==1) && (nyala2==0)  && (micon<2)){
   t2=millis();
   digitalWrite(10, HIGH);
   nyala2=1;
   micon ++;
//   Serial.println(x);
   x2=0;
   delay(300);
}
if((nyala2==1) &&((x2==1) || ((millis()-t2) >120000)) ){
    digitalWrite(10,LOW);
     nyala2=0;
    t2=millis();
 //  Serial.println(x);
   micon --;
   x2=0;
```

```
      delay(300);
   }
   //tombol 3
   x3=digitalRead(b3);
   if ((x3==1) && (nyala3==0)  && (micon<2)){
      t3=millis();
      digitalWrite(11, HIGH);
      nyala3=1;
      micon ++;
 //   Serial.println(x);
      x3=0;
     delay(300);
   }
   if((nyala3==1)&& ((x3==1) || ((millis()-t3) >120000)) ){
       digitalWrite(11,LOW);
        nyala3=0;
       t3=millis();
  //   Serial.println(x);
     micon --;
     x3=0;
      delay(300);
   }

   //tombol 4
   x4=digitalRead(b4);
   if ((x4==1) && (nyala4==0)  && (micon<2)){
      t4=millis();
      digitalWrite(12, HIGH);
      nyala4=1;
      micon ++;
 //   Serial.println(x);
      x4=0;
     delay(300);
   }
   if((nyala4==1) && ((x4==1) || ((millis()-t4) > 120000)) ){
       digitalWrite(12,LOW);
        nyala4=0;
       t4=millis();
  //   Serial.println(x);
     micon --;
     x4=0;
     delay(300);
   }
```

```
//tombol 5
x5=digitalRead(b5);
if ((x5==1) && (nyala5==0)  && (micon<2)){
   t5=millis();
   digitalWrite(13, HIGH);
   nyala5=1;
   micon ++;
//   Serial.println(x);
   x5=0;
   delay(300);
}
if((nyala5==1) && ((x5==1) || ((millis()-t5) > 120000)) ){
    digitalWrite(13,LOW);
     nyala5=0;
     t5=millis();
 //  Serial.println(x);
   micon --;
   x5=0;
   delay(300);
 }
 delay(300);
 Serial.println(micon);
 }
```