LAMPIRAN

***Skript* Pengendali darurat :**

```
int cek = 12;

char send = 'a';

void setup() {

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

Serial.begin(9600);

pinMode(cek, OUTPUT); // membuat cek menjadi OUTPUT.

}

void loop() {

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

Serial.print(send);

digitalWrite(cek, HIGH);

delay(1800); //delay looping 0.1 detik}

 }
```

***Skript Traffic Light* :**

```
int a = 2; int b = 3; int c = 4; int d = 5; int e = 6; int f = 7; int g = 8;
int Merah = 9; int Kuning = 10; int Hijau = 11; int Biru = 12;
char out;
int x = 0;
void setup() {
// put your setup code here, to run once:
Serial.begin(9600);
pinMode(a, OUTPUT); // membuat a menjadi OUTPUT.
pinMode(b, OUTPUT); // membuat b menjadi OUTPUT.
pinMode(c, OUTPUT); // membuat c menjadi OUTPUT.
pinMode(d, OUTPUT);// membuat e menjadi OUTPUT.
pinMode(e, OUTPUT); // membuat e menjadi OUTPUT.
pinMode(f, OUTPUT); // membuat f menjadi OUTPUT.
pinMode(g, OUTPUT); // membuat g menjadi OUTPUT.
pinMode(Merah, OUTPUT); // membuat merah menjadi OUTPUT.
pinMode(Kuning, OUTPUT); // membuat kuning menjadi OUTPUT.
pinMode(Hijau, OUTPUT); // membuat hijau menjadi OUTPUT.
pinMode(Biru, OUTPUT); // membuat biru menjadi OUTPUT.
void loop() {
// put your main code here, to run repeatedly:
// EMERGENCY MODE
out = Serial.read();
```

```
if (out =='a') {

digitalWrite(Merah, HIGH); digitalWrite(Kuning, HIGH); digitalWrite(Hijau,
LOW);digitalWrite(Biru, HIGH);// Emergency

digitalWrite(a, HIGH); digitalWrite(b, HIGH); digitalWrite(c, HIGH);
digitalWrite(d, HIGH); digitalWrite(e, HIGH); digitalWrite(f, HIGH);
digitalWrite(g, LOW); // 0

delay(1000);

digitalWrite(Merah, HIGH); digitalWrite(Kuning, LOW); digitalWrite(Hijau,
LOW);digitalWrite(Biru, HIGH);// Emergency

digitalWrite(a, HIGH); digitalWrite(b, HIGH); digitalWrite(c, HIGH);
digitalWrite(d, HIGH); digitalWrite(e, HIGH); digitalWrite(f, HIGH);
digitalWrite(g, LOW); // 0

delay(1000);

}

// NORMAL MODE



if (x== 0 &&out !='a') {

digitalWrite(Merah, LOW); digitalWrite(Kuning, LOW); digitalWrite(Hijau,
HIGH);digitalWrite(Biru, LOW);// Hijau

digitalWrite(a, HIGH); digitalWrite(b, LOW); digitalWrite(c, HIGH);
digitalWrite(d, HIGH); digitalWrite(e, LOW); digitalWrite(f, HIGH);
digitalWrite(g, HIGH);// 5

delay(1000);

x=1; }

// EMERGENCY MODE

out = Serial.read();
```

```
if (out =='a') {

digitalWrite(Merah, HIGH); digitalWrite(Kuning, HIGH); digitalWrite(Hijau,
LOW);digitalWrite(Biru, HIGH);// Emergency

digitalWrite(a, HIGH); digitalWrite(b, HIGH); digitalWrite(c, HIGH);
digitalWrite(d, HIGH); digitalWrite(e, HIGH); digitalWrite(f, HIGH);
digitalWrite(g, LOW); // 0

delay(1000);

digitalWrite(Merah, HIGH); digitalWrite(Kuning, LOW); digitalWrite(Hijau,
LOW);digitalWrite(Biru, HIGH);// Emergency

digitalWrite(a, HIGH); digitalWrite(b, HIGH); digitalWrite(c, HIGH);
digitalWrite(d, HIGH); digitalWrite(e, HIGH); digitalWrite(f, HIGH);
digitalWrite(g, LOW); // 0

delay(1000);

}

// NORMAL MODE



if (x== 1&&out !='a') {

digitalWrite(Merah, LOW); digitalWrite(Kuning, LOW); digitalWrite(Hijau,
HIGH);digitalWrite(Biru, LOW);// Hijau

digitalWrite(a, LOW); digitalWrite(b, HIGH); digitalWrite(c, HIGH);
digitalWrite(d, LOW); digitalWrite(e, LOW); digitalWrite(f, HIGH);
digitalWrite(g, HIGH);// 4

delay(1000);

x=2;}

// EMERGENCY MODE

out = Serial.read();



if (out =='a') {
```

```
digitalWrite(Merah, HIGH); digitalWrite(Kuning, HIGH); digitalWrite(Hijau, LOW);digitalWrite(Biru, HIGH);// Emergency

digitalWrite(a, HIGH); digitalWrite(b, HIGH); digitalWrite(c, HIGH); digitalWrite(d, HIGH); digitalWrite(e, HIGH); digitalWrite(f, HIGH); digitalWrite(g, LOW); // 0

delay(1000);

digitalWrite(Merah, HIGH); digitalWrite(Kuning, LOW); digitalWrite(Hijau, LOW);digitalWrite(Biru, HIGH);// Emergency

digitalWrite(a, HIGH); digitalWrite(b, HIGH); digitalWrite(c, HIGH); digitalWrite(d, HIGH); digitalWrite(e, HIGH); digitalWrite(f, HIGH); digitalWrite(g, LOW); // 0

delay(1000);

}

// NORMAL MODE



if (x== 2&&out !='a') {

digitalWrite(Merah, LOW); digitalWrite(Kuning, LOW); digitalWrite(Hijau, HIGH);digitalWrite(Biru, LOW);// Hijau

digitalWrite(a, HIGH); digitalWrite(b, HIGH); digitalWrite(c, HIGH); digitalWrite(d, HIGH); digitalWrite(e, LOW); digitalWrite(f, LOW); digitalWrite(g, HIGH);// 3

delay(1000);

x=3;}

// EMERGENCY MODE

out = Serial.read();



if (out =='a') {
```

```
digitalWrite(Merah, HIGH); digitalWrite(Kuning, HIGH); digitalWrite(Hijau, LOW);digitalWrite(Biru, HIGH);// Emergency

digitalWrite(a, HIGH); digitalWrite(b, HIGH); digitalWrite(c, HIGH); digitalWrite(d, HIGH); digitalWrite(e, HIGH); digitalWrite(f, HIGH); digitalWrite(g, LOW); // 0

delay(1000);

digitalWrite(Merah, HIGH); digitalWrite(Kuning, LOW); digitalWrite(Hijau, LOW);digitalWrite(Biru, HIGH);// Emergency

digitalWrite(a, HIGH); digitalWrite(b, HIGH); digitalWrite(c, HIGH); digitalWrite(d, HIGH); digitalWrite(e, HIGH); digitalWrite(f, HIGH); digitalWrite(g, LOW); // 0

delay(1000);

}

// NORMAL MODE



if (x== 3&&out !='a') {

digitalWrite(Merah, LOW); digitalWrite(Kuning, LOW); digitalWrite(Hijau, HIGH);digitalWrite(Biru, LOW); // Hijau

digitalWrite(a, HIGH); digitalWrite(b, HIGH); digitalWrite(c, LOW); digitalWrite(d, HIGH); digitalWrite(e, HIGH); digitalWrite(f, LOW); digitalWrite(g, HIGH);// 2

delay(1000);

x=4;}

// EMERGENCY MODE

out = Serial.read();



if (out =='a') {
```

```
digitalWrite(Merah, HIGH); digitalWrite(Kuning, HIGH); digitalWrite(Hijau, LOW); digitalWrite(Biru, HIGH); // Emergency

digitalWrite(a, HIGH); digitalWrite(b, HIGH); digitalWrite(c, HIGH); digitalWrite(d, HIGH); digitalWrite(e, HIGH); digitalWrite(f, HIGH); digitalWrite(g, LOW); // 0

delay(1000);

digitalWrite(Merah, HIGH); digitalWrite(Kuning, LOW); digitalWrite(Hijau, LOW);digitalWrite(Biru, HIGH);// Emergency

digitalWrite(a, HIGH); digitalWrite(b, HIGH); digitalWrite(c, HIGH); digitalWrite(d, HIGH); digitalWrite(e, HIGH); digitalWrite(f, HIGH); digitalWrite(g, LOW); // 0

delay(1000);

}

// NORMAL MODE



if (x== 4&&out !='a') {

digitalWrite(Merah, LOW); digitalWrite(Kuning, LOW); digitalWrite(Hijau, HIGH);digitalWrite(Biru, LOW);// Hijau

digitalWrite(a, LOW); digitalWrite(b, HIGH); digitalWrite(c, HIGH); digitalWrite(d, LOW); digitalWrite(e, LOW); digitalWrite(f, LOW); digitalWrite(g, LOW);// 1

delay(1000);

x=5;}

// EMERGENCY MODE

out = Serial.read();



if (out =='a') {
```

```
digitalWrite(Merah, HIGH); digitalWrite(Kuning, HIGH); digitalWrite(Hijau, LOW);digitalWrite(Biru, HIGH);// Emergency

digitalWrite(a, HIGH); digitalWrite(b, HIGH); digitalWrite(c, HIGH); digitalWrite(d, HIGH); digitalWrite(e, HIGH); digitalWrite(f, HIGH); digitalWrite(g, LOW); // 0

delay(1000);

digitalWrite(Merah, HIGH); digitalWrite(Kuning, LOW); digitalWrite(Hijau, LOW);digitalWrite(Biru, HIGH);// Emergency

digitalWrite(a, HIGH); digitalWrite(b, HIGH); digitalWrite(c, HIGH); digitalWrite(d, HIGH); digitalWrite(e, HIGH); digitalWrite(f, HIGH); digitalWrite(g, LOW); // 0

delay(1000);

}

// NORMAL MODE



if (x== 5&&out !='a') {

digitalWrite(Merah, LOW); digitalWrite(Kuning, LOW); digitalWrite(Hijau, HIGH);digitalWrite(Biru, LOW);// Hijau

digitalWrite(a, HIGH); digitalWrite(b, HIGH); digitalWrite(c, HIGH); digitalWrite(d, HIGH); digitalWrite(e, HIGH); digitalWrite(f, HIGH); digitalWrite(g, LOW);// 0

delay(1000);

x=6;

}

// EMERGENCY MODE

out = Serial.read();



if (out =='a') {
```

```
digitalWrite(Merah, HIGH); digitalWrite(Kuning, HIGH); digitalWrite(Hijau, LOW);digitalWrite(Biru, HIGH);// Emergency

digitalWrite(a, HIGH); digitalWrite(b, HIGH); digitalWrite(c, HIGH); digitalWrite(d, HIGH); digitalWrite(e, HIGH); digitalWrite(f, HIGH); digitalWrite(g, LOW); // 0

delay(1000);

digitalWrite(Merah, HIGH); digitalWrite(Kuning, LOW); digitalWrite(Hijau, LOW);digitalWrite(Biru, HIGH);// Emergency

digitalWrite(a, HIGH); digitalWrite(b, HIGH); digitalWrite(c, HIGH); digitalWrite(d, HIGH); digitalWrite(e, HIGH); digitalWrite(f, HIGH); digitalWrite(g, LOW); // 0

delay(1000);

}



// NORMAL MODE



if (x== 6&&out !='a') {

digitalWrite(Merah, LOW); digitalWrite(Kuning, HIGH); digitalWrite(Hijau, LOW);digitalWrite(Biru, LOW); // Kuning

digitalWrite(a, HIGH); digitalWrite(b, HIGH); digitalWrite(c, HIGH); digitalWrite(d, HIGH); digitalWrite(e, HIGH); digitalWrite(f, HIGH); digitalWrite(g, LOW);// 0

delay(1000);

x=7;

}

// EMERGENCY MODE

out = Serial.read();
```

```
if (out =='a') {

digitalWrite(Merah, HIGH); digitalWrite(Kuning, HIGH); digitalWrite(Hijau,
LOW);digitalWrite(Biru, HIGH);// Emergency

digitalWrite(a, HIGH); digitalWrite(b, HIGH); digitalWrite(c, HIGH);
digitalWrite(d, HIGH); digitalWrite(e, HIGH); digitalWrite(f, HIGH);
digitalWrite(g, LOW); // 0

delay(1000);

digitalWrite(Merah, HIGH); digitalWrite(Kuning, LOW); digitalWrite(Hijau,
LOW);digitalWrite(Biru, HIGH);// Emergency

digitalWrite(a, HIGH); digitalWrite(b, HIGH); digitalWrite(c, HIGH);
digitalWrite(d, HIGH); digitalWrite(e, HIGH); digitalWrite(f, HIGH);
digitalWrite(g, LOW); // 0

delay(1000);

}

// NORMAL MODE



if (x== 7 &&out !='a') {

digitalWrite(Merah, HIGH); digitalWrite(Kuning, LOW); digitalWrite(Hijau,
LOW);digitalWrite(Biru, LOW);// Merah

digitalWrite(a, HIGH); digitalWrite(b, LOW); digitalWrite(c, HIGH);
digitalWrite(d, HIGH); digitalWrite(e, LOW); digitalWrite(f, HIGH);
digitalWrite(g, HIGH);// 5

delay(1000);

x=8; }

// EMERGENCY MODE

out = Serial.read();



if (out =='a') {
```

```
digitalWrite(Merah, HIGH); digitalWrite(Kuning, HIGH); digitalWrite(Hijau, LOW);digitalWrite(Biru, HIGH);// Emergency

digitalWrite(a, HIGH); digitalWrite(b, HIGH); digitalWrite(c, HIGH); digitalWrite(d, HIGH); digitalWrite(e, HIGH); digitalWrite(f, HIGH); digitalWrite(g, LOW); // 0

delay(1000);

digitalWrite(Merah, HIGH); digitalWrite(Kuning, LOW); digitalWrite(Hijau, LOW);digitalWrite(Biru, HIGH);// Emergency

digitalWrite(a, HIGH); digitalWrite(b, HIGH); digitalWrite(c, HIGH); digitalWrite(d, HIGH); digitalWrite(e, HIGH); digitalWrite(f, HIGH); digitalWrite(g, LOW); // 0

delay(1000);

}

// NORMAL MODE



if (x== 8&&out !='a') {

digitalWrite(Merah, HIGH); digitalWrite(Kuning, LOW); digitalWrite(Hijau, LOW);digitalWrite(Biru, LOW);// Merah

digitalWrite(a, LOW); digitalWrite(b, HIGH); digitalWrite(c, HIGH); digitalWrite(d, LOW); digitalWrite(e, LOW); digitalWrite(f, HIGH); digitalWrite(g, HIGH);// 4

delay(1000);

x=9;}

// EMERGENCY MODE

out = Serial.read();



if (out =='a') {
```

```
digitalWrite(Merah, HIGH); digitalWrite(Kuning, HIGH); digitalWrite(Hijau, LOW);digitalWrite(Biru, HIGH);// Emergency

digitalWrite(a, HIGH); digitalWrite(b, HIGH); digitalWrite(c, HIGH); digitalWrite(d, HIGH); digitalWrite(e, HIGH); digitalWrite(f, HIGH); digitalWrite(g, LOW); // 0

delay(1000);

digitalWrite(Merah, HIGH); digitalWrite(Kuning, LOW); digitalWrite(Hijau, LOW);digitalWrite(Biru, HIGH);// Emergency

digitalWrite(a, HIGH); digitalWrite(b, HIGH); digitalWrite(c, HIGH); digitalWrite(d, HIGH); digitalWrite(e, HIGH); digitalWrite(f, HIGH); digitalWrite(g, LOW); // 0

delay(1000);

}

// NORMAL MODE



if (x== 9&&out !='a') {

digitalWrite(Merah, HIGH); digitalWrite(Kuning, LOW); digitalWrite(Hijau, LOW);digitalWrite(Biru, LOW);// Merah

digitalWrite(a, HIGH); digitalWrite(b, HIGH); digitalWrite(c, HIGH); digitalWrite(d, HIGH); digitalWrite(e, LOW); digitalWrite(f, LOW); digitalWrite(g, HIGH);// 3

delay(1000);

x=10;}

// EMERGENCY MODE

out = Serial.read();



if (out =='a') {
```

```
digitalWrite(Merah, HIGH); digitalWrite(Kuning, HIGH); digitalWrite(Hijau, LOW);digitalWrite(Biru, HIGH);// Emergency

digitalWrite(a, HIGH); digitalWrite(b, HIGH); digitalWrite(c, HIGH); digitalWrite(d, HIGH); digitalWrite(e, HIGH); digitalWrite(f, HIGH); digitalWrite(g, LOW); // 0

delay(1000);

digitalWrite(Merah, HIGH); digitalWrite(Kuning, LOW); digitalWrite(Hijau, LOW);digitalWrite(Biru, HIGH);// Emergency

digitalWrite(a, HIGH); digitalWrite(b, HIGH); digitalWrite(c, HIGH); digitalWrite(d, HIGH); digitalWrite(e, HIGH); digitalWrite(f, HIGH); digitalWrite(g, LOW); // 0

delay(1000);

}

// NORMAL MODE



if (x== 10&&out !='a') {

digitalWrite(Merah, HIGH); digitalWrite(Kuning, LOW); digitalWrite(Hijau, LOW);digitalWrite(Biru, LOW);// Merah

digitalWrite(a, HIGH); digitalWrite(b, HIGH); digitalWrite(c, LOW); digitalWrite(d, HIGH); digitalWrite(e, HIGH); digitalWrite(f, LOW); digitalWrite(g, HIGH);// 2

delay(1000);

x=11;}

// EMERGENCY MODE

out = Serial.read();



if (out =='a') {
```

```
digitalWrite(Merah, HIGH); digitalWrite(Kuning, HIGH); digitalWrite(Hijau, LOW);digitalWrite(Biru, HIGH);// Emergency

digitalWrite(a, HIGH); digitalWrite(b, HIGH); digitalWrite(c, HIGH); digitalWrite(d, HIGH); digitalWrite(e, HIGH); digitalWrite(f, HIGH); digitalWrite(g, LOW); // 0

delay(1000);

digitalWrite(Merah, HIGH); digitalWrite(Kuning, LOW); digitalWrite(Hijau, LOW);digitalWrite(Biru, HIGH);// Emergency

digitalWrite(a, HIGH); digitalWrite(b, HIGH); digitalWrite(c, HIGH); digitalWrite(d, HIGH); digitalWrite(e, HIGH); digitalWrite(f, HIGH); digitalWrite(g, LOW); // 0

delay(1000);

}

// NORMAL MODE



if (x== 11&&out !='a') {

digitalWrite(Merah, HIGH); digitalWrite(Kuning, LOW); digitalWrite(Hijau, LOW);digitalWrite(Biru, LOW);// Merah

digitalWrite(a, LOW); digitalWrite(b, HIGH); digitalWrite(c, HIGH); digitalWrite(d, LOW); digitalWrite(e, LOW); digitalWrite(f, LOW); digitalWrite(g, LOW);// 1

delay(1000);

x=12;}

// EMERGENCY MODE

out = Serial.read();



if (out =='a') {
```

```
digitalWrite(Merah, HIGH); digitalWrite(Kuning, HIGH); digitalWrite(Hijau, LOW);digitalWrite(Biru, HIGH);// Emergency

digitalWrite(a, HIGH); digitalWrite(b, HIGH); digitalWrite(c, HIGH); digitalWrite(d, HIGH); digitalWrite(e, HIGH); digitalWrite(f, HIGH); digitalWrite(g, LOW); // 0

delay(1000);

digitalWrite(Merah, HIGH); digitalWrite(Kuning, LOW); digitalWrite(Hijau, LOW);digitalWrite(Biru, HIGH);// Emergency

digitalWrite(a, HIGH); digitalWrite(b, HIGH); digitalWrite(c, HIGH); digitalWrite(d, HIGH); digitalWrite(e, HIGH); digitalWrite(f, HIGH); digitalWrite(g, LOW); // 0

delay(1000);

}

// NORMAL MODE



if (x== 12&&out !='a') {

digitalWrite(Merah, HIGH); digitalWrite(Kuning, LOW); digitalWrite(Hijau, LOW);digitalWrite(Biru, LOW); // Merah

digitalWrite(a, HIGH); digitalWrite(b, HIGH); digitalWrite(c, HIGH); digitalWrite(d, HIGH); digitalWrite(e, HIGH); digitalWrite(f, HIGH); digitalWrite(g, LOW);// 0

delay(1000);

x=0;

}

 }
```