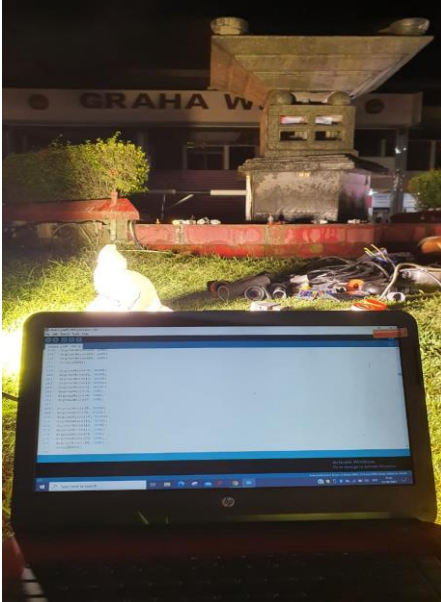


Lampiran

- Proses pengerjaan air mancur



- Gambar proses pengerjaan panel untuk air mancur





Gambar untuk selenoid dan pompa 1 fasa untuk air mancur



Gambar pengecekan daya dan tegangan untuk air mancur





Gambar hasil air mancur

- Program alat

```
void setup() {  
  // put your setup code here, to run once:  
  pinMode(0, OUTPUT);  
  pinMode(1, OUTPUT);  
  pinMode(2, OUTPUT);  
  pinMode(3, OUTPUT);  
  pinMode(4, OUTPUT);  
  pinMode(5, OUTPUT);  
  pinMode(6, OUTPUT);  
  pinMode(7, OUTPUT);  
  pinMode(8, OUTPUT);  
  pinMode(9, OUTPUT);  
  pinMode(10, OUTPUT);  
  pinMode(11, OUTPUT);  
  pinMode(12, OUTPUT);  
  pinMode(13, OUTPUT);  
  pinMode(14, OUTPUT);  
  pinMode(15, OUTPUT);  
  pinMode(17, OUTPUT);  
  pinMode(18, OUTPUT);  
  pinMode(19, OUTPUT);  
}
```

```
pinMode(20, OUTPUT);  
}
```

```
void loop() {
```

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

```
  // mode 1, Nyala bersamaan pin 1 sampai 7, kemudian pin 8 sampai 15 dan  
  selanjutnya pin 20
```

```
  digitalWrite(17, HIGH); //pompa 1 on  
  digitalWrite(0, HIGH);  
  digitalWrite(1, HIGH);  
  digitalWrite(2, HIGH);  
  digitalWrite(3, HIGH);  
  digitalWrite(4, HIGH);  
  digitalWrite(5, HIGH);  
  digitalWrite(6, HIGH);  
  digitalWrite(7, HIGH);  
  delay (2000);
```

```
  digitalWrite(18, HIGH); //pompa 2 on  
  digitalWrite(8, HIGH);  
  digitalWrite(9, HIGH);  
  digitalWrite(10, HIGH);  
  digitalWrite(11, HIGH);  
  digitalWrite(12, HIGH);  
  digitalWrite(13, HIGH);  
  digitalWrite(14, HIGH);  
  digitalWrite(15, HIGH);  
  delay (2000);
```

```
  digitalWrite(20, HIGH); //pompa 3 on  
  delay (1000);  
  digitalWrite(20, LOW); //pompa 3 off  
  delay (500);
```

```
  digitalWrite(18, LOW); //pompa 2 off  
  digitalWrite(8, LOW);  
  digitalWrite(9, LOW);  
  digitalWrite(10, LOW);
```

```
digitalWrite(11, LOW);  
digitalWrite(12, LOW);  
digitalWrite(13, LOW);  
digitalWrite(14, LOW);  
digitalWrite(15, LOW);  
delay (2000);
```

```
digitalWrite(18, LOW); //pompa 1 off  
digitalWrite(0, LOW);  
digitalWrite(1, LOW);  
digitalWrite(2, LOW);  
digitalWrite(3, LOW);  
digitalWrite(4, LOW);  
digitalWrite(5, LOW);  
digitalWrite(6, LOW);  
digitalWrite(7, LOW);  
delay (2000);
```

```
digitalWrite(17, HIGH); //pompa 1 on  
digitalWrite(0, HIGH);  
digitalWrite(1, HIGH);  
digitalWrite(2, HIGH);  
digitalWrite(3, HIGH);  
digitalWrite(4, HIGH);  
digitalWrite(5, HIGH);  
digitalWrite(6, HIGH);  
digitalWrite(7, HIGH);  
delay (2000);
```

```
digitalWrite(18, HIGH); //pompa 1 on  
digitalWrite(8, HIGH);  
digitalWrite(9, HIGH);  
digitalWrite(10, HIGH);  
digitalWrite(11, HIGH);  
digitalWrite(12, HIGH);  
digitalWrite(13, HIGH);  
digitalWrite(14, HIGH);  
digitalWrite(15, HIGH);  
delay (2000);
```

```
digitalWrite(20, HIGH); //pompa 3 on  
delay (3000);
```

```
digitalWrite(17, HIGH); //pompa 1 on  
digitalWrite(0, HIGH);  
delay (1000);  
digitalWrite(0, LOW);  
delay (1000);  
digitalWrite(1, HIGH);  
delay (1000);  
digitalWrite(1, LOW);  
delay (1000);  
digitalWrite(2, HIGH);  
delay (1000);  
digitalWrite(2, LOW);  
delay (1000);  
digitalWrite(3, HIGH);  
delay (1000);  
digitalWrite(3, LOW);  
delay (1000);  
digitalWrite(4, HIGH);  
delay (1000);  
digitalWrite(4, LOW);  
delay (1000);  
digitalWrite(5, HIGH);  
delay (1000);  
digitalWrite(5, LOW);  
delay (1000);  
digitalWrite(6, HIGH);  
delay (1000);  
digitalWrite(6, LOW);  
delay (1000);  
digitalWrite(7, HIGH);  
delay (1000);  
digitalWrite(20, HIGH); //pompa 3 on  
digitalWrite(17, LOW); //pompa 1 off  
digitalWrite(7, LOW);  
delay (3000);  
digitalWrite(17, LOW);
```

```
digitalWrite(8, LOW);
delay (2000);
digitalWrite(18, HIGH); //pompa 2 on
digitalWrite(9, HIGH);
delay (2000);
digitalWrite(9, LOW);
delay (1000);
digitalWrite(10, HIGH);
delay (1000);
digitalWrite(10, LOW);
delay (1000);
digitalWrite(11, HIGH);
delay (1000);
digitalWrite(11, LOW);
delay (1000);
digitalWrite(12, HIGH);
delay (1000);
digitalWrite(12, LOW);
delay (1000);
digitalWrite(13, HIGH);
delay (1000);
digitalWrite(13, LOW);
delay (1000);
digitalWrite(14, HIGH);
delay (1000);
digitalWrite(14, LOW);
delay (1000);
digitalWrite(15, HIGH);
delay (1000);
digitalWrite(18, LOW); //pompa 2 off
digitalWrite(15, LOW);
delay (2000);

digitalWrite(17, HIGH); //pompa 1 on
digitalWrite(0, HIGH);
digitalWrite(1, LOW);
digitalWrite(2, LOW);
```



```
digitalWrite(3, LOW);  
digitalWrite(4, LOW);  
digitalWrite(5, LOW);  
digitalWrite(6, LOW);  
digitalWrite(7, LOW);
```

```
digitalWrite(18, HIGH); //pompa 2 on  
digitalWrite(8, HIGH);  
digitalWrite(9, LOW);  
digitalWrite(10, LOW);  
digitalWrite(11, LOW);  
digitalWrite(12, LOW);  
digitalWrite(13, LOW);  
digitalWrite(14, LOW);  
digitalWrite(15, LOW);  
digitalWrite(20, LOW);  
delay(2000);
```

//mode 2 nyala berurutan dar pin 1 sampai 7, pin 8 sampai 15 dan pin 20 berkedip

```
digitalWrite(17, HIGH); //pompa 1 on  
digitalWrite(0, HIGH);  
digitalWrite(1, HIGH);  
digitalWrite(2, LOW);  
digitalWrite(3, LOW);  
digitalWrite(4, LOW);  
digitalWrite(5, LOW);  
digitalWrite(6, LOW);  
digitalWrite(7, LOW);
```

```
digitalWrite(18, HIGH); //pompa 2 on  
digitalWrite(8, HIGH);  
digitalWrite(9, HIGH);  
digitalWrite(10, LOW);  
digitalWrite(11, LOW);  
digitalWrite(12, LOW);  
digitalWrite(13, LOW);  
digitalWrite(14, LOW);  
digitalWrite(15, LOW);
```

```
digitalWrite(20, LOW); //pompa 3 off  
delay(2000);
```

```
digitalWrite(0, HIGH);  
digitalWrite(1, HIGH);  
digitalWrite(2, HIGH);  
digitalWrite(3, LOW);  
digitalWrite(4, LOW);  
digitalWrite(5, LOW);  
digitalWrite(6, LOW);  
digitalWrite(7, LOW);
```

```
digitalWrite(8, HIGH);  
digitalWrite(9, HIGH);  
digitalWrite(10, HIGH);  
digitalWrite(11, LOW);  
digitalWrite(12, LOW);  
digitalWrite(13, LOW);  
digitalWrite(14, LOW);  
digitalWrite(15, LOW);  
digitalWrite(20, LOW);  
delay(2000);
```

```
digitalWrite(0, HIGH);  
digitalWrite(1, HIGH);  
digitalWrite(2, HIGH);  
digitalWrite(3, HIGH);  
digitalWrite(4, LOW);  
digitalWrite(5, LOW);  
digitalWrite(6, LOW);  
digitalWrite(7, LOW);
```

```
digitalWrite(8, HIGH);  
digitalWrite(9, HIGH);  
digitalWrite(10, HIGH);  
digitalWrite(11, HIGH);  
digitalWrite(12, LOW);  
digitalWrite(13, LOW);  
digitalWrite(14, LOW);
```

```
digitalWrite(15, LOW);  
digitalWrite(20, LOW);  
delay(2000);
```

```
digitalWrite(0, HIGH);  
digitalWrite(1, HIGH);  
digitalWrite(2, HIGH);  
digitalWrite(3, HIGH);  
digitalWrite(4, HIGH);  
digitalWrite(5, LOW);  
digitalWrite(6, LOW);  
digitalWrite(7, LOW);
```

```
digitalWrite(8, HIGH);  
digitalWrite(9, HIGH);  
digitalWrite(10, HIGH);  
digitalWrite(11, HIGH);  
digitalWrite(12, HIGH);  
digitalWrite(13, LOW);  
digitalWrite(14, LOW);  
digitalWrite(15, LOW);  
digitalWrite(20, LOW);  
delay(2000);
```

```
digitalWrite(19, HIGH); //pompa 4 on  
digitalWrite(0, HIGH);  
digitalWrite(1, HIGH);  
digitalWrite(2, HIGH);  
digitalWrite(3, HIGH);  
digitalWrite(4, HIGH);  
digitalWrite(5, HIGH);  
digitalWrite(6, LOW);  
digitalWrite(7, LOW);
```

```
digitalWrite(8, HIGH);  
digitalWrite(9, HIGH);  
digitalWrite(10, HIGH);  
digitalWrite(11, HIGH);  
digitalWrite(12, HIGH);
```

```
digitalWrite(13, HIGH);  
digitalWrite(14, LOW);  
digitalWrite(15, LOW);  
digitalWrite(20, LOW);  
delay(2000);
```

```
digitalWrite(0, HIGH);  
digitalWrite(1, HIGH);  
digitalWrite(2, HIGH);  
digitalWrite(3, HIGH);  
digitalWrite(4, HIGH);  
digitalWrite(5, HIGH);  
digitalWrite(6, HIGH);  
digitalWrite(7, LOW);
```

```
digitalWrite(8, HIGH);  
digitalWrite(9, HIGH);  
digitalWrite(10, HIGH);  
digitalWrite(11, HIGH);  
digitalWrite(12, HIGH);  
digitalWrite(13, HIGH);  
digitalWrite(14, HIGH);  
digitalWrite(15, LOW);  
digitalWrite(20, LOW);  
delay(2000);
```

```
digitalWrite(0, HIGH);  
digitalWrite(1, HIGH);  
digitalWrite(2, HIGH);  
digitalWrite(3, HIGH);  
digitalWrite(4, HIGH);  
digitalWrite(5, HIGH);  
digitalWrite(5, HIGH);  
digitalWrite(6, HIGH);  
digitalWrite(7, HIGH);
```

```
digitalWrite(8, HIGH);  
digitalWrite(9, HIGH);  
digitalWrite(10, HIGH);
```

```
digitalWrite(11, HIGH);
digitalWrite(12, HIGH);
digitalWrite(13, HIGH);
digitalWrite(14, HIGH);
digitalWrite(15, HIGH);
digitalWrite(20, HIGH);
delay(2500);
digitalWrite(17, LOW); //pompa 1 off
digitalWrite(18, LOW); //pompa 2 off
digitalWrite(19, LOW); //pompa 4 off
digitalWrite(20, LOW); //pompa 3 off
delay(2000);
digitalWrite(20, HIGH); //pompa 3 on
delay (2000);

digitalWrite(17, HIGH); //pompa 1 on
digitalWrite(0, HIGH);
delay (1000);
digitalWrite(0, LOW);
delay (1000);
digitalWrite(1, HIGH);
delay (1000);
digitalWrite(1, LOW);
delay (1000);
digitalWrite(2, HIGH);
delay (1000);
digitalWrite(2, LOW);
delay (1000);
digitalWrite(3, HIGH);
delay (1000);
digitalWrite(3, LOW);
delay (1000);
digitalWrite(4, HIGH);
delay (1000);
digitalWrite(4, LOW);
delay (1000);
digitalWrite(5, HIGH);
delay (1000);
digitalWrite(5, LOW);
```

```
delay (1000);  
digitalWrite(6, HIGH);  
delay (1000);  
digitalWrite(6, LOW);  
delay (1000);  
digitalWrite(7, HIGH);  
delay (1000);  
digitalWrite(17, LOW); //pompa 1 off  
digitalWrite(7, LOW);  
delay (2000);
```

```
digitalWrite(8, LOW);  
delay (1000);  
digitalWrite(18, HIGH);  
digitalWrite(9, HIGH);  
delay (1000);  
digitalWrite(9, LOW);  
delay (1000);  
digitalWrite(10, HIGH);  
delay (1000);  
digitalWrite(10, LOW);  
delay (1000);  
digitalWrite(11, HIGH);  
delay (1000);  
digitalWrite(11, LOW);  
delay (1000);  
digitalWrite(12, HIGH);  
delay (1000);  
digitalWrite(12, LOW);  
delay (1000);  
digitalWrite(13, HIGH);  
delay (1000);  
digitalWrite(13, LOW);  
delay (1000);  
digitalWrite(14, HIGH);  
delay (1000);  
digitalWrite(14, LOW);  
delay (1000);  
digitalWrite(15, HIGH);
```

```
delay (1000);  
digitalWrite(18, LOW); //pompa 1 off  
digitalWrite(15, LOW);  
delay (2000);
```

// mode 3 nyala terus mati bergantian pin 0 sampai 20, kemudian semua nyala bersamaan

```
digitalWrite(17, HIGH);  
digitalWrite(0, HIGH);  
delay (1000);  
digitalWrite(0, LOW);  
delay (1000);  
digitalWrite(1, HIGH);  
delay (1000);  
digitalWrite(1, LOW);  
delay (1000);  
digitalWrite(2, HIGH);  
delay (1000);  
digitalWrite(2, LOW);  
delay (1000);  
digitalWrite(3, HIGH);  
delay (1000);  
digitalWrite(3, LOW);  
delay (1000);  
digitalWrite(4, HIGH);  
delay (1000);  
digitalWrite(4, LOW);  
delay (1000);  
digitalWrite(5, HIGH);  
delay (1000);  
digitalWrite(5, LOW);  
delay (1000);  
digitalWrite(6, HIGH);  
delay (1000);  
digitalWrite(6, LOW);  
delay (1000);  
digitalWrite(7, HIGH);  
delay (1000);
```

```
digitalWrite(17, LOW); //pompa 1 off
digitalWrite(7, LOW);
delay (2000);
```

```
digitalWrite(18, HIGH); //pompa 2 on
digitalWrite(8, HIGH);
delay (1000);
digitalWrite(8, LOW);
delay (1000);
digitalWrite(9, HIGH);
delay (1000);
digitalWrite(9, LOW);
delay (1000);
digitalWrite(10, HIGH);
delay (1000);
digitalWrite(10, LOW);
delay (1000);
digitalWrite(11, HIGH);
delay (1000);
digitalWrite(11, LOW);
delay (1000);
digitalWrite(12, HIGH);
delay (1000);
digitalWrite(12, LOW);
delay (1000);
digitalWrite(13, HIGH);
delay (1000);
digitalWrite(13, LOW);
delay (1000);
digitalWrite(14, HIGH);
delay (1000);
digitalWrite(14, LOW);
delay (1000);
digitalWrite(15, HIGH);
delay (1000);
digitalWrite(18, LOW); //pompa 2 off
digitalWrite(15, LOW);
delay (1000);
digitalWrite(20, HIGH); //pompa 3 on
```



```
digitalWrite(17, HIGH); //pompa 1 on  
digitalWrite(18, HIGH); //pompa 2 on  
digitalWrite(19, HIGH); //pompa 4 on
```

```
digitalWrite(0, HIGH);  
digitalWrite(1, HIGH);  
digitalWrite(2, HIGH);  
digitalWrite(3, HIGH);  
digitalWrite(4, HIGH);  
digitalWrite(5, HIGH);  
digitalWrite(5, HIGH);  
digitalWrite(6, HIGH);  
digitalWrite(7, HIGH);  
digitalWrite(8, HIGH);  
digitalWrite(9, HIGH);  
digitalWrite(10, HIGH);  
digitalWrite(11, HIGH);  
digitalWrite(12, HIGH);  
digitalWrite(13, HIGH);  
digitalWrite(14, HIGH);  
digitalWrite(15, HIGH);  
digitalWrite(20, HIGH);  
delay (3000);
```

```
digitalWrite(17, HIGH); //pompa 1 on  
digitalWrite(18, LOW); //pompa 2 Off  
digitalWrite(19, LOW); //pompa 4 off
```

```
digitalWrite(0, HIGH);  
delay (1000);  
digitalWrite(0, LOW);  
delay (1000);  
digitalWrite(1, HIGH);  
delay (1000);  
digitalWrite(1, LOW);  
delay (1000);  
digitalWrite(2, HIGH);  
delay (1000);
```

```
digitalWrite(2, LOW);
delay (1000);
digitalWrite(3, HIGH);
delay (1000);
digitalWrite(3, LOW);
delay (1000);
digitalWrite(4, HIGH);
delay (1000);
digitalWrite(4, LOW);
delay (1000);
digitalWrite(5, HIGH);
delay (1000);
digitalWrite(5, LOW);
delay (1000);
digitalWrite(6, HIGH);
delay (1000);
digitalWrite(6, LOW);
delay (1000);
digitalWrite(7, HIGH);
delay (1000);
digitalWrite(7, LOW);
delay (1000);

digitalWrite(18, HIGH); //pompa 2 on
digitalWrite(8, HIGH);
delay (1000);
digitalWrite(8, LOW);
delay (1000);
digitalWrite(9, HIGH);
delay (1000);
digitalWrite(9, LOW);
delay (1000);
digitalWrite(10, HIGH);
delay (1000);
digitalWrite(10, LOW);
delay (1000);
digitalWrite(11, HIGH);
delay (1000);
digitalWrite(11, LOW);
```

```
delay (1000);
digitalWrite(12, HIGH);
delay (1000);
digitalWrite(12, LOW);
delay (1000);
digitalWrite(13, HIGH);
delay (1000);
digitalWrite(13, LOW);
delay (1000);
digitalWrite(14, HIGH);
delay (1000);
digitalWrite(14, LOW);
delay (1000);
digitalWrite(15, HIGH);
delay (1000);
digitalWrite(15, LOW);
delay (1000);
digitalWrite(20, HIGH);
```

```
digitalWrite(19, HIGH); //pompa 4 on
digitalWrite(0, HIGH);
digitalWrite(1, HIGH);
digitalWrite(2, HIGH);
digitalWrite(3, HIGH);
digitalWrite(4, HIGH);
digitalWrite(5, HIGH);
digitalWrite(5, HIGH);
digitalWrite(6, HIGH);
digitalWrite(7, HIGH);
digitalWrite(8, HIGH);
digitalWrite(9, HIGH);
digitalWrite(10, HIGH);
digitalWrite(11, HIGH);
digitalWrite(12, HIGH);
digitalWrite(13, HIGH);
digitalWrite(14, HIGH);
digitalWrite(15, HIGH);
digitalWrite(20, HIGH);
delay (3000);
```

```
digitalWrite(17, HIGH); //pompa 1 on  
digitalWrite(18, LOW); //pompa 2 Off  
digitalWrite(19, LOW); //pompa 4 off
```

```
digitalWrite(0, HIGH);  
delay (1000);  
digitalWrite(0, LOW);  
delay (1000);  
digitalWrite(1, HIGH);  
delay (1000);  
digitalWrite(1, LOW);  
delay (1000);  
digitalWrite(2, HIGH);  
delay (1000);  
digitalWrite(2, LOW);  
delay (1000);  
digitalWrite(3, HIGH);  
delay (1000);  
digitalWrite(3, LOW);  
delay (1000);  
digitalWrite(4, HIGH);  
delay (1000);  
digitalWrite(4, LOW);  
delay (1000);  
digitalWrite(5, HIGH);  
delay (1000);  
digitalWrite(5, LOW);  
delay (1000);  
digitalWrite(6, HIGH);  
delay (1000);  
digitalWrite(6, LOW);  
delay (1000);  
digitalWrite(7, HIGH);  
delay (1000);  
digitalWrite(7, LOW);  
delay (1000);
```

```
digitalWrite(17, HIGH); //pompa 1 on
```

```
digitalWrite(18, LOW); //pompa 2 Off  
digitalWrite(19, LOW); //pompa 4 off
```

```
digitalWrite(0, HIGH);  
digitalWrite(1, HIGH);  
digitalWrite(2, HIGH);  
digitalWrite(3, HIGH);  
digitalWrite(4, HIGH);  
digitalWrite(5, HIGH);  
digitalWrite(5, HIGH);  
digitalWrite(6, HIGH);  
digitalWrite(7, HIGH);
```

```
digitalWrite(17, LOW); //pompa 1 off  
digitalWrite(18, HIGH); //pompa 2 ON  
digitalWrite(19, LOW); //pompa 4 off
```

```
digitalWrite(8, LOW);  
delay (1000);  
digitalWrite(9, HIGH);  
delay (1000);  
digitalWrite(9, LOW);  
delay (1000);  
digitalWrite(10, HIGH);  
delay (1000);  
digitalWrite(10, LOW);  
delay (1000);  
digitalWrite(11, HIGH);  
delay (1000);  
digitalWrite(11, LOW);  
delay (1000);  
digitalWrite(12, HIGH);  
delay (1000);  
digitalWrite(12, LOW);  
delay (1000);  
digitalWrite(13, HIGH);  
delay (1000);  
digitalWrite(13, LOW);  
delay (1000);
```

```
digitalWrite(14, HIGH);  
delay (1000);  
digitalWrite(14, LOW);  
delay (1000);  
digitalWrite(15, HIGH);  
delay (1000);  
digitalWrite(15, LOW);  
delay (1000);  
digitalWrite(20, HIGH);  
delay (1000);  
digitalWrite(20, LOW);  
delay (1000);
```

```
digitalWrite(7, HIGH);  
digitalWrite(8, HIGH);  
digitalWrite(9, HIGH);  
digitalWrite(10, HIGH);  
digitalWrite(11, HIGH);  
digitalWrite(12, HIGH);  
digitalWrite(13, HIGH);  
digitalWrite(14, HIGH);  
digitalWrite(15, HIGH);  
digitalWrite(20, HIGH);  
delay (2000);
```

```
digitalWrite(20, LOW);  
delay (2000);
```

```
digitalWrite(8, LOW);  
delay (1000);  
digitalWrite(9, HIGH);  
delay (1000);  
digitalWrite(9, LOW);  
delay (1000);  
digitalWrite(10, HIGH);  
delay (1000);  
digitalWrite(10, LOW);  
delay (1000);  
digitalWrite(11, HIGH);
```

```
delay (1000);
digitalWrite(11, LOW);
delay (1000);
digitalWrite(12, HIGH);
delay (1000);
digitalWrite(12, LOW);
delay (1000);
digitalWrite(13, HIGH);
delay (1000);
digitalWrite(13, LOW);
delay (1000);
digitalWrite(14, HIGH);
delay (1000);
digitalWrite(14, LOW);
delay (1000);
digitalWrite(15, HIGH);
delay (1000);
digitalWrite(15, LOW);
delay (1000);
```

```
digitalWrite(17, HIGH); //pompa 1 on
digitalWrite(18, LOW); //pompa 2 off
digitalWrite(19, LOW); //pompa 4 off
```

```
digitalWrite(0, HIGH);
delay (1000);
digitalWrite(0, LOW);
delay (1000);
digitalWrite(1, HIGH);
delay (1000);
digitalWrite(1, LOW);
delay (1000);
digitalWrite(2, HIGH);
delay (1000);
digitalWrite(2, LOW);
delay (1000);
digitalWrite(3, HIGH);
delay (1000);
digitalWrite(3, LOW);
```

```
delay (1000);  
digitalWrite(4, HIGH);  
delay (1000);  
digitalWrite(4, LOW);  
delay (1000);  
digitalWrite(5, HIGH);  
delay (1000);  
digitalWrite(5, LOW);  
delay (1000);  
digitalWrite(6, HIGH);  
delay (1000);  
digitalWrite(6, LOW);  
delay (1000);  
digitalWrite(7, HIGH);  
delay (1000);  
digitalWrite(7, LOW);  
delay (1000);
```

```
digitalWrite(17, HIGH); //pompa 1 on  
digitalWrite(18, HIGH); //pompa 2 ON  
digitalWrite(19, HIGH); //pompa 4 on
```

```
digitalWrite(0, HIGH);  
digitalWrite(1, HIGH);  
digitalWrite(2, HIGH);  
digitalWrite(3, HIGH);  
digitalWrite(4, HIGH);  
digitalWrite(5, HIGH);  
digitalWrite(5, HIGH);  
digitalWrite(6, HIGH);  
digitalWrite(7, HIGH);  
digitalWrite(8, HIGH);  
digitalWrite(9, HIGH);  
digitalWrite(10, HIGH);  
digitalWrite(11, HIGH);  
digitalWrite(12, HIGH);  
digitalWrite(13, HIGH);  
digitalWrite(14, HIGH);  
digitalWrite(15, HIGH);
```



```
digitalWrite(20, HIGH);  
delay (3000);
```

```
digitalWrite(17, HIGH); //pompa 1 on  
digitalWrite(18, LOW); //pompa 2 Off  
digitalWrite(19, LOW); //pompa 4 off
```

```
digitalWrite(0, HIGH);  
delay (1000);  
digitalWrite(0, LOW);  
delay (1000);  
digitalWrite(1, HIGH);  
delay (1000);  
digitalWrite(1, LOW);  
delay (1000);  
digitalWrite(2, HIGH);  
delay (1000);  
digitalWrite(2, LOW);  
delay (1000);  
digitalWrite(3, HIGH);  
delay (1000);  
digitalWrite(3, LOW);  
delay (1000);  
digitalWrite(4, HIGH);  
delay (1000);  
digitalWrite(4, LOW);  
delay (1000);  
digitalWrite(5, HIGH);  
delay (1000);  
digitalWrite(5, LOW);  
delay (1000);  
digitalWrite(6, HIGH);  
delay (1000);  
digitalWrite(6, LOW);  
delay (1000);  
digitalWrite(7, HIGH);  
delay (1000);  
digitalWrite(7, LOW);  
delay (1000);
```

```
digitalWrite(8, LOW);
delay (1000);
digitalWrite(18, HIGH); //pompa 2 On
digitalWrite(9, HIGH);
delay (1000);
digitalWrite(9, LOW);
delay (1000);
digitalWrite(10, HIGH);
delay (1000);
digitalWrite(10, LOW);
delay (1000);
digitalWrite(11, HIGH);
delay (1000);
digitalWrite(11, LOW);
delay (1000);
digitalWrite(12, HIGH);
delay (1000);
digitalWrite(12, LOW);
delay (1000);
digitalWrite(13, HIGH);
delay (1000);
digitalWrite(13, LOW);
delay (1000);
digitalWrite(14, HIGH);
delay (1000);
digitalWrite(14, LOW);
delay (1000);
digitalWrite(15, HIGH);
delay (1000);
digitalWrite(15, LOW);
delay (1000);
digitalWrite(20, LOW);
delay (1000);

digitalWrite(17, HIGH); //pompa 1 on
digitalWrite(18, HIGH); //pompa 2 on
digitalWrite(19, HIGH); //pompa 4 on
```

```
digitalWrite(0, HIGH); // turn on LED1
delay(500);           // wait for 200ms
digitalWrite(1, HIGH); // turn on LED1
delay(500);           // wait for 200ms
digitalWrite(2, HIGH); // turn on LED2
delay(500);           // wait for 200ms
digitalWrite(3, HIGH); // turn on LED3
delay(500);           // wait for 200ms
digitalWrite(4, HIGH); // turn on LED4
delay(500);           // wait for 200ms
digitalWrite(5, HIGH); // turn on LED5
delay(500);           // wait for 200ms
digitalWrite(6, HIGH); // turn on LED6
delay(500);           // wait for 200ms
digitalWrite(7, HIGH); // turn on LED7
delay(500);           // wait for 200ms
digitalWrite(8, HIGH); // turn on LED8
delay(500);           // wait for 200ms
digitalWrite(9, HIGH); // turn on LED9
delay(500);           // wait for 200ms
digitalWrite(10, HIGH); // turn on LED10
delay(500);           // wait for 200ms
digitalWrite(11, HIGH); // turn on LED11
delay(500);           // wait for 200ms
digitalWrite(12, HIGH); // turn on LED12
delay(500);           // wait for 200ms
digitalWrite(13, HIGH); // turn on LED13
delay(500);           // wait for 200ms
digitalWrite(14, HIGH); // turn on LED14
delay(500);           // wait for 200ms
digitalWrite(15, HIGH); // turn on LED15
delay(500);           // wait for 200ms

digitalWrite(1, LOW); // turn off LED1
delay(500);           // wait for 300ms
digitalWrite(2, LOW); // turn off LED2
delay(500);           // wait for 300ms
digitalWrite(3, LOW); // turn off LED3
delay(500);           // wait for 300ms
```

```
digitalWrite(4, LOW); // turn off LED4
delay(500);           // wait for 300ms
digitalWrite(5, LOW); // turn off LED5
delay(500);           // wait for 300ms
digitalWrite(6, LOW); // turn off LED6
delay(500);           // wait for 300ms
digitalWrite(7, LOW); // turn off LED7
delay(500);           // wait for 300ms
digitalWrite(8, LOW); // turn off LED8
delay(500);           // wait for 300ms
digitalWrite(9, LOW); // turn off LED9
delay(500);           // wait for 300ms
digitalWrite(10, LOW); // turn off LED10
delay(500);           // wait for 300ms
digitalWrite(11, LOW); // turn off LED11
delay(500);           // wait for 300ms
digitalWrite(12, LOW); // turn off LED12
delay(500);           // wait for 300ms
digitalWrite(13, LOW); // turn off LED13
delay(500);           // wait for 300ms
digitalWrite(14, LOW); // turn off LED14
delay(500);           // wait for 300ms
digitalWrite(15, LOW); // turn off LED15
delay(500);           // wait for 300ms before running program all over again
```

```
digitalWrite(0, HIGH); // turn on LED1
delay(500);           // wait for 200ms
digitalWrite(1, HIGH); // turn on LED1
delay(500);           // wait for 200ms
digitalWrite(2, HIGH); // turn on LED2
delay(500);           // wait for 200ms
digitalWrite(3, HIGH); // turn on LED3
delay(500);           // wait for 200ms
digitalWrite(4, HIGH); // turn on LED4
delay(500);           // wait for 200ms
digitalWrite(5, HIGH); // turn on LED5
delay(500);           // wait for 200ms
digitalWrite(6, HIGH); // turn on LED6
delay(500);           // wait for 200ms
```

```
digitalWrite(7, HIGH); // turn on LED7
delay(500);           // wait for 200ms
digitalWrite(8, HIGH); // turn on LED8
delay(500);           // wait for 200ms
digitalWrite(9, HIGH); // turn on LED9
delay(500);           // wait for 200ms
digitalWrite(10, HIGH); // turn on LED10
delay(500);           // wait for 200ms
digitalWrite(11, HIGH); // turn on LED11
delay(500);           // wait for 200ms
digitalWrite(12, HIGH); // turn on LED12
delay(500);           // wait for 200ms
digitalWrite(13, HIGH); // turn on LED13
delay(500);           // wait for 200ms
digitalWrite(14, HIGH); // turn on LED14
delay(500);           // wait for 200ms
digitalWrite(15, HIGH); // turn on LED15
delay(500);           // wait for 200ms
```

```
digitalWrite(1, LOW); // turn off LED1
delay(500);           // wait for 300ms
digitalWrite(2, LOW); // turn off LED2
delay(500);           // wait for 300ms
digitalWrite(3, LOW); // turn off LED3
delay(500);           // wait for 300ms
digitalWrite(4, LOW); // turn off LED4
delay(500);           // wait for 300ms
digitalWrite(5, LOW); // turn off LED5
delay(500);           // wait for 300ms
digitalWrite(6, LOW); // turn off LED6
delay(500);           // wait for 300ms
digitalWrite(7, LOW); // turn off LED7
delay(500);           // wait for 300ms
digitalWrite(8, LOW); // turn off LED8
delay(500);           // wait for 300ms
digitalWrite(9, LOW); // turn off LED9
delay(500);           // wait for 300ms
digitalWrite(10, LOW); // turn off LED10
delay(500);           // wait for 300ms
```

```
digitalWrite(11, LOW); // turn off LED11
delay(500);           // wait for 300ms
digitalWrite(12, LOW); // turn off LED12
delay(500);           // wait for 300ms
digitalWrite(13, LOW); // turn off LED13
delay(500);           // wait for 300ms
digitalWrite(14, LOW); // turn off LED14
delay(500);           // wait for 300ms
digitalWrite(15, LOW); // turn off LED15
delay(500);           // wait for 300ms before running program all over again
```

```
digitalWrite(17, LOW); //pompa 1 off
digitalWrite(18, LOW); //pompa 2 off
digitalWrite(19, LOW); //pompa 4 off
}
```