

```

void setup()
{
    pinMode(2, OUTPUT);
    pinMode(3, OUTPUT);
    pinMode(4, OUTPUT);
    pinMode(8, INPUT);
}

void loop()
{
    if (digitalRead(8) == 0)
    {
        //-----state1-----
        digitalWrite(2, 1);        // LED ON
        digitalWrite(3, 0);        // LED ON
        digitalWrite(4, 0);        // LED ON
        delay(300);                // delay 500 ms
        //-----state2-----
        digitalWrite(2, 0);        // LED OFF
        digitalWrite(3, 1);        // LED OFF
        digitalWrite(4, 0);        // LED OFF
        delay(300);                // delay 500 ms
        //-----state3-----
        digitalWrite(2, 0);        // LED OFF
        digitalWrite(3, 0);        // LED OFF
        digitalWrite(4, 1);        // LED OFF
    }
}

```

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        delay(300);                // delay 500 ms
//-----state4-----
        digitalWrite(2,0);         // LED OFF
        digitalWrite(3,0);         // LED OFF
        digitalWrite(4,0);         // LED OFF
        delay(300);                // delay 500 ms
    }

//=====

    else
    {
//-----state5-----
        digitalWrite(2,0);         // LED OFF
        digitalWrite(3,0);         // LED OFF
        digitalWrite(4,1);         // LED OFF
        delay(300);                // delay 500 ms
//-----state6-----
        digitalWrite(2,0);         // LED OFF
        digitalWrite(3,1);         // LED OFF
        digitalWrite(4,0);         // LED OFF
        delay(300);                // delay 500 ms
//-----state7-----
        digitalWrite(2,1);         // LED OFF
        digitalWrite(3,0);         // LED OFF
        digitalWrite(4,0);         // LED OFF

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```
    delay(300);                // delay 500 ms
//-----state8-----
    digitalWrite(2,0);         // LED OFF
    digitalWrite(3,0);         // LED OFF
    digitalWrite(4,0);         // LED OFF
    delay(300);                // delay 500 ms
}

//=====
}
```