

```

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

void loop()
{
    if(digitalRead(8) == 0)
    {
        //-----State 1 = 100 -----
        digitalWrite(2,1);
        digitalWrite(3,0);
        digitalWrite(4,0);
        delay(500);           // dalay 500 ms
        //-----State 2 = 010 -----
        digitalWrite(2,0);
        digitalWrite(3,1);
        digitalWrite(4,0);
        delay(500);           // dalay 500 ms
        //-----State 3 = 001 -----
        digitalWrite(2,0);
        digitalWrite(3,0);
        digitalWrite(4,1);
        delay(500);           // dalay 500 ms
        //-----State 4 = 000 -----
        digitalWrite(2,0);
        digitalWrite(3,0);
        digitalWrite(4,0);
        delay(500);           // dalay 500 ms
    }
    //=====
    else
    {

```

```

    //-----State 5 = 001 -----
    digitalWrite(2,0);
    digitalWrite(3,0);
    digitalWrite(4,1);
    delay(500);           // dalay 500 ms
    //-----State 6 = 010 -----
    digitalWrite(2,0);
    digitalWrite(3,1);
    digitalWrite(4,0);
    delay(500);           // dalay 500 ms
    //-----State 7 = 100 -----
    digitalWrite(2,1);
    digitalWrite(3,0);
    digitalWrite(4,0);
    delay(500);           // dalay 500 ms
    //-----State 8 = 000 -----
    digitalWrite(2,0);
    digitalWrite(3,0);
    digitalWrite(4,0);
    delay(500);           // dalay 500 ms
}
//=====
}

```