

```

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

void loop()
{
  if(digitalRead(8)==0)
  {
    //-----Stae 1 = 100-----
    digitalWrite(2,1);
    digitalWrite(3,0);
    digitalWrite(4,0);
    delay(250);          // delay(250) ms
    //-----Stae 2 = 010-----
    digitalWrite(2,0);
    digitalWrite(3,1);
    digitalWrite(4,0);
    delay(250);          // delay(250) ms
    //-----Stae 3 = 001-----
    digitalWrite(2,0);
    digitalWrite(3,0);
    digitalWrite(4,1);
    delay(250);
    //-----Stae 4 = 000-----
    digitalWrite(2,0);
    digitalWrite(3,0);
    digitalWrite(4,0);
    delay(250);          // delay(250) ms
  }
  //=====
  else
  {
    //-----Stae 5 = 001-----
    digitalWrite(2,0);
    digitalWrite(3,0);
    digitalWrite(4,1);
    delay(250);          // delay(250) ms
    //-----Stae 6 = 010-----
    digitalWrite(2,0);
    digitalWrite(3,1);
    digitalWrite(4,0);
    delay(250);          // delay(250) ms
    //-----Stae 7 = 100-----
    digitalWrite(2,1);
    digitalWrite(3,0);
    digitalWrite(4,0);
  }
}

```

```
    delay(250);          // delay(250) ms
    //-----Stae 8 = 000-----
    digitalWrite(2,0);
    digitalWrite(3,0);
    digitalWrite(4,0);
    delay(250);          // delay(250) ms
  }
}
```