

```

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(250);          // delay 250 ms
    //-----State 2 = 010 -----
    digitalWrite(2,0);
    digitalWrite(3,1);
    digitalWrite(4,0);
    delay(250);          // delay 250 ms
    //-----State 3 = 001 -----
    digitalWrite(2,0);
    digitalWrite(3,0);
    digitalWrite(4,1);
    delay(250);          // delay 250 ms
    //-----State 4 = 000-----
    digitalWrite(2,0);
    digitalWrite(3,0);
    digitalWrite(4,0);
    delay(250);          // delay 250 ms
  }

  else
  {
    //-----State 5 = 001 -----
    digitalWrite(2,0);
    digitalWrite(3,0);
    digitalWrite(4,1);
    delay(250);          // delay 250 ms
    //-----State 6 = 010 -----
    digitalWrite(2,0);
    digitalWrite(3,1);
    digitalWrite(4,0);
    delay(250);          // delay 250 ms
    //-----State 7 = 100 -----
    digitalWrite(2,1);
    digitalWrite(3,0);
    digitalWrite(4,0);
  }
}

```

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