

```

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

void loop()
{
    if(digitalRead(8)== 0)
    {
        //-----State 1 -----
        digitalWrite(2,1);
        digitalWrite(3,0);
        digitalWrite(4,0);
        delay(500);
        //-----State 2 -----
        digitalWrite(2,0);
        digitalWrite(3,1);
        digitalWrite(4,0);
        delay(500);
        //-----State 3 -----
        digitalWrite(2,0);
        digitalWrite(3,0);
        digitalWrite(4,1);
        delay(500);
        //-----State 4 -----
        digitalWrite(2,0);
        digitalWrite(3,0);
        digitalWrite(4,0);
        delay(500);
    }
    else
    {
        //-----State 5 -----
        digitalWrite(2,0);
        digitalWrite(3,0);
        digitalWrite(4,1);
        delay(500);
        //-----State 6 -----
        digitalWrite(2,0);
        digitalWrite(3,1);
        digitalWrite(4,0);
        delay(500);
        //-----State 7 -----
        digitalWrite(2,1);
        digitalWrite(3,0);
        digitalWrite(4,0);
        delay(500);
    }
}

```

```
    //-----State 8 -----  
    digitalWrite(2,0);  
    digitalWrite(3,0);  
    digitalWrite(4,0);  
    delay(500);  
}  
}
```