

```
#include <Servo.h>
```

```
Servo myservo;
```

```
int pos = 0;
```

```
void setup()
```

```
{
```

```
  Serial.begin(9600);
```

```
  pinMode(13, OUTPUT);
```

```
  pinMode(11, OUTPUT);
```

```
  pinMode(A0, INPUT);
```

```
  pinMode(A1, INPUT);
```

```
  myservo.attach(11);
```

```
}
```

```
void loop()
```

```
{
```

```
  int s1 = analogRead(A0);
```

```
  int s2 = analogRead(A1);
```

```
  //Serial.println(s1);
```

```
  Serial.println(s2);
```

```
  delay(10);
```

```
  if(s2<700)
```

```
  { for (pos = 0; pos <= 180; pos += 2) {
```

```
    myservo.write(pos);
```

```
    delay(5);
```

```
  }
```

```
  for (pos = 180; pos >= 0; pos -= 2) {
```

```
    myservo.write(pos);  
    delay(5);  
}  
delay(2000);  
}  
if(s1>500)  
{  
    digitalWrite(13, HIGH);  
}  
if(s1<500)  
{  
    digitalWrite(13, LOW);  
}  
}
```

