

## ASSIGNMENT-1

```
#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);  
}  
}
```

