

## Ex: 11

## Servo Motor Control

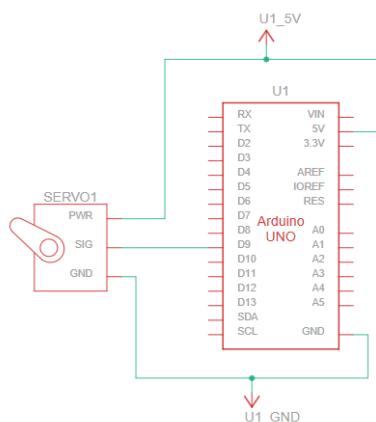
### Aim:

To interface Servo Motor and control its movement using Arduino Uno.

### Components Required:

- Arduino Uno Board
- Servo Motor
- Jumpers

### Circuit Connection:



### Pin Connections between Servo Moto and Arduino UNO

Servo	Arduino UNO Pin
Ground	Ground
Signal	D9
Power	+5V

### Sketch

```
#include <Servo.h>
int servoPin = 9;
Servo servo;
int angle = 0; // servo position in degrees

void setup() {
  servo.attach(servoPin);
}
```

```
void loop() {  
    // scan from 0 to 180 degrees  
    for(angle = 0; angle < 180; angle++) {  
        servo.write(angle);  
        delay(15);  
    }  
    // now scan back from 180 to 0 degrees  
    for(angle = 180; angle > 0; angle--) {  
        servo.write(angle);  
        delay(15);  
    }  
}
```

### **Result:**

Thus Arduino Uno board is utilized to control Servo Motor movement.