```
int trigPin = 11;
int echoPin = 12;
long duration, cm;
#include <Servo.h>
int pos = 0;
Servo servo 9;
void setup() {
 Serial.begin (9600);
 pinMode(trigPin, OUTPUT);
 pinMode(echoPin, INPUT);
 servo 9.attach(9, 500, 2500);
void loop() {
 digitalWrite(trigPin, LOW);
 delayMicroseconds(5);
 digitalWrite(trigPin, HIGH);
 delayMicroseconds(10);
 digitalWrite(trigPin, LOW);
 duration = pulseIn(echoPin, HIGH);
 Serial.println();
  if (cm<21) {
```

```
for (pos = 360; pos >= 0; pos -= 1) {
    // tell servo to go to position in variable 'pos'
    servo_9.write(pos);
    // wait 15 ms for servo to reach the position
    delay(30); // Wait for 15 millisecond(s)
    break;
    }
}
if (cm > 15) {
    for (pos = 0; pos <= 360; pos += 1) {
        // tell servo to go to position in variable 'pos'
        servo_9.write(pos);
        // wait 15 ms for servo to reach the position
        delay(30); // Wait for 15 millisecond(s)
        break;
    }
}
delay(250);
}</pre>
```