## Pet feeder

```
#include <Servo.h>
Servo myservo; // create servo object to control a servo
// twelve servo objects can be created on most boards
int pos = 0;
#define echoPin1 7
#define trigPin1 6
#define buzz 5
long duration;
int distance;
void setup() {
Serial.begin(9600);
pinMode(trigPin1, OUTPUT);
pinMode(echoPin1, INPUT);
myservo.attach(9);
pinMode(buzz, OUTPUT);
int obstacle(int trigPinx, int echoPinx) {
 digitalWrite(trigPinx, LOW);
 delayMicroseconds(2);
 digitalWrite(trigPinx, HIGH);
 delayMicroseconds(10);
 digitalWrite(trigPinx, LOW);
 duration = pulseIn(echoPinx, HIGH);
 distance = duration * 0.034 / 2;
 return distance;
void loop(){
 int dist1 = obstacle(trigPin1,echoPin1);
 Serial.println(dist1);
 Serial.print("\t");
 if (dist1 < 20){
  for (pos = 0; pos \leq 70; pos += 1) { // goes from 0 degrees to 180 degrees
  // in steps of 1 degree
  myservo.write(pos);
                                // tell servo to go to position in variable 'pos'
  delay(15);
                           // waits 15ms for the servo to reach the position
 for (pos = 70; pos \rightarrow 0; pos \rightarrow 1) { // goes from 180 degrees to 0 degrees
  myservo.write(pos);
                               // tell servo to go to position in variable 'pos'
  delay(15);
                           // waits 15ms for the servo to reach the position
```

```
else{
// digitalWrite(buzz,LOW);
}
delay(200);
}
```





