

ASSIGNMENT-2

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```
#include<Servo.h>

Servo s;

void setup()
{
  pinMode(3, OUTPUT);
  pinMode(4, INPUT);
  Serial.begin(9600);
  s.attach(5);
}

void loop()
{
  digitalWrite(3, LOW);
  delayMicroseconds(2);
  digitalWrite(3, HIGH);
  delayMicroseconds(10);
  digitalWrite(3, LOW);

  float duration = pulseIn(4, HIGH);
  float distance= duration*0.034/2;

  Serial.print("Distance: ");
  Serial.println(distance);

  if (distance<25){
    for(int i=0;i<=180;i++){
      s.write(i);
      delay(50);}
    delay(200);
```

```
for(int j=180;j>=0;j--){
    s.write(j);
    delay(50);}
    delay(200);
}
```

