Code for Graph Radar System

```
#include <Servo.h>.
const int trigPin = 8;
const int echoPin = 9;
// defining time and distance
long duration;
int distance;
Servo myServo; // Object servo
void setup() {
  pinMode(trigPin, OUTPUT); // trigPin as an Output
  pinMode(echoPin, INPUT); // echoPin as an Input
  Serial.begin(9600);
  myServo.attach(10); // Pin Connected To Servo
}
void loop() {
  // rotating servo i++ depicts increment of one degree
  for(int i=15;i<=165;i++){
  myServo.write(i);
  delay(30);
  distance = calculateDistance();

  Serial.print(i);
  Serial.print(",");
  Serial.print(distance);
  Serial.print(".");
  }
  // Repeats the previous lines from 165 to 15 degrees
  for(int i=165;i>15;i--){
  myServo.write(i);
  delay(30);
  distance = calculateDistance();
  Serial.print(i);  Serial.print(",");
```

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```
  Serial.print(distance);
  Serial.print(".");
  }
}
int calculateDistance(){

  digitalWrite(trigPin, LOW);
  delayMicroseconds(2);
  // Sets the trigPin on HIGH state for 10 micro seconds
  digitalWrite(trigPin, HIGH);
  delayMicroseconds(10);
  digitalWrite(trigPin, LOW);
  duration = pulseIn(echoPin, HIGH);
  distance= duration*0.034/2;
  return distance;
}
```