Code for IoT Practical-1

```
#include <Servo.h>
Servo myservo;
const int trigPin = 9;
const int echoPin = 8;

long duration;
float distance;

void setup()
{
  myservo.attach(7);
  pinMode(trigPin, OUTPUT);
  pinMode(echoPin, INPUT);
  myservo.write(0);
}

void loop()
{
  Serial.begin(9600);
  digitalWrite(trigPin, LOW);
  delayMicroseconds(2);
  digitalWrite(trigPin, HIGH);
  delayMicroseconds(10);
  digitalWrite(trigPin, LOW);

  duration = pulseIn(echoPin, HIGH);
  distance = 0.034*(duration/2);
  Serial.println(distance);
  if (distance <=50)
  {
    myservo.write(0+160);
    delay(1000);
  }
  else
  {
      myservo.write(0);
  }
  delay(300);
}
```