Servo Motor Controlled By Ultrasonic Sensor

Program:

```
#include <Servo.h>
#define trigPin 7
#define echoPin 6
Servo servo;
int sound = 250;
void setup() {
Serial.begin (9600);
pinMode(trigPin, OUTPUT);
pinMode(echoPin, INPUT);
servo.attach(8);
}
void loop() {
long duration, distance;
```

```
digitalWrite(trigPin, LOW);
delayMicroseconds(2);
digitalWrite(trigPin, HIGH);
delayMicroseconds(10);
digitalWrite(trigPin, LOW);
duration = pulseIn(echoPin, HIGH);
distance = (duration/2) / 29.1;
if (distance < 5) {
Serial.println("the distance is less than 5");
servo.write(90);
}
else {
servo.write(0);
}
```

```
if (distance > 60 || distance <= 0){

Serial.println("The distance is more than 60");
}
else {

Serial.print(distance);

Serial.println(" cm");
}
delay(500);</pre>
```

}