Ultrasonic Range Finder Program

```
#include <Servo.h>
#include <SoftwareSerial.h>
const int Trig_pinRight =  7;
const int Echo_pinRight = 6;
long durationRight;
 Servo servoMotor;
 Servo servoUp;
int bleft = 0;
int bright = 1;
int tup= 2;
int tdown = 3;
 int analogleft = 0;
 int analogright = 0;
 int analogup= 0;
 int analogdown = 0;

 int servoPin = 0;
 int servoup=1;

 void setup() {
 servoMotor.attach(servoPin);
 servoUp.attach(servoup);
 Serial.begin(9600);
 pinMode(Trig_pinRight, OUTPUT);
 pinMode(Echo_pinRight, INPUT);
 }

 void loop()
 {
 analogleft = analogRead(bleft);
analogright = analogRead(bright);
analogup = analogRead(tup);
analogdown = analogRead(tdown);
 //Serial.println(analogleft);

 digitalWrite(Trig_pinRight, LOW);
    delayMicroseconds(2);
    digitalWrite(Trig_pinRight, HIGH);
    delayMicroseconds(5);
    digitalWrite(Trig_pinRight, LOW);
    durationRight = pulseIn(Echo_pinRight,HIGH);
    Serial.println(durationRight);

 if (analogleft < 100){
```

```
  servoMotor.write(165);
  delay(200);
}
 if (analogright <100){
   servoMotor.write(15);
   delay(200);
 }
if (analogup<100){
  servoUp.write(165);
  delay(50);
}
 if (analogdown<100){
   servoUp.write(15);
   delay(50);
 }
else
{
 servoMotor.write(90);
 servoUp.write(90);
}

}
```