ASSIGNMENT-1

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CODE:

```
#include
<Servo.h>int
dist=0;
long readUltrasonicDis(int trigpin,int
ecpin){pinMode(trigpin,OUTPUT);
digitalWrite(trigpin,LOW);
delayMicroseconds(2);

digitalWrite(trigpin,HIGH);
delayMicroseconds(10);
digitalWrite(trigpin,LOW);
```

```
pinMode(ecpin,HIGH);
return
pulseIn(ecpin,HIGH);
}

Servo servo_8;

void setup(){
servo_8.attach(8,500,2500);
pinMode(2,INPUT);
pinMode(12,OUTPUT);
pinMode(A0,INPUT);
pinMode(9,OUTPUT);
}

void loop(){
dist=0.01723*readUltrasonicDis(7,7);
if(dist<=100){
servo_8.write(90);
delay(2000);
}
if(digitalRead(2)==1)
{
digitalWrite(12,HIGH
);delay(2000);
}
else{
digitalWrite(12,LOW
);delay(2000);
```

```
}
if(analogRead(A0)>200)
{digitalWrite(9,HIGH);
delay(2000);
}
else{
digitalWrite(9,LOW
);delay(2000);
}
}
```

SCREENSORT: