```
int verde =2;
int ambar =4;
int rojo =7;
int echode =8;
int trigde =9;
long distanciade;
void setup()
{
 pinMode(2, OUTPUT);
 pinMode(4, OUTPUT);
 pinMode(7, OUTPUT);
 pinMode(echode, INPUT);
 pinMode(trigde, OUTPUT);
 Serial.begin(9600);
}
void loop()
 while(true)
 {
  sensor();
  Serial.println(distanciade);
  if (distanciade<= 10)
  {
   semaforo();
  if (distanciade >= 11)
```

```
{
   nosemaforo();
  }
 }
}
void nosemaforo()
{
 digitalWrite(2, HIGH);
 digitalWrite(4, HIGH);
 digitalWrite(7, HIGH);
}
void semaforo()
 digitalWrite(2, HIGH);
 digitalWrite(4, HIGH);
 digitalWrite(7, HIGH);
 digitalWrite(2, LOW);
 delay(5000);
 digitalWrite(2, HIGH);
 digitalWrite(4, LOW);
 delay(3000);
 digitalWrite(4, HIGH);
 digitalWrite(7, LOW);
 delay(5000);
```

```
digitalWrite(7, HIGH);
}

void sensor()
{
    long duracion;
    digitalWrite(trigde, LOW);
    delayMicroseconds(4);
    digitalWrite(trigde, HIGH);
    delayMicroseconds(19);
    digitalWrite(trigde, LOW);
    duracion=pulseIn(echode, HIGH);
    duracion=duracion/2;
    distanciade=duracion/29;
    1. }
```