

```
const int trigPin = 2;
const int echoPin = 4;
const int motorPin = 10;
```

```
long duration;
int distance;
int safeDistance;
```

```
void setup() {
  pinMode(trigPin, OUTPUT);
  pinMode(echoPin, INPUT);
  pinMode(motorPin, OUTPUT);
}
```

```
void loop() {
```

```
  digitalWrite(trigPin, LOW);
  delayMicroseconds(2);
```

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

```
  duration = pulseIn(echoPin, HIGH);
```

```
  distance= duration*0.034/2;
```

```
  safeDistance = distance;
  if (safeDistance <= 50){
    digitalWrite(motorPin, HIGH);
  }
  else{
    digitalWrite(motorPin, LOW);
  }
}
```