

OS HATTI ATTITUTE

Simulator time: 00:00:14.789

```
Code Stop Simulation
```

```
0
```

1 (Arduino Uno R3) -

Send To

```
How the debugger works
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- Add breakpoints by clicking on the line numbers.
- Hover over the variables while paused to see their value.
- Use the buttons above to resume simulation or step one line at a time.

Serial Monitor

17 1

1 #define echoPin 9

long duration;

int distance;

10 void setup() {

19 void loop() {

#define trigPin 10

int red= 6, green= 3, blue= 5;

pinMode(trigPin, OUTPUT);

pinMode(echoPin, INPUT);
pinMode(red, OUTPUT);
pinMode(green, OUTPUT);
pinMode(blue, OUTPUT);
Serial.begin(9600);

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

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

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duration = pulseIn(echoPin, HIGH);
distance = duration * 0.034 / 2;

```
#define echoPin 9
#define trigPin 10
Int red= 6, green= 3, blue= 5;
Long duration;
Int distance;
Void setup() {
 pinMode(trigPin, OUTPUT);
 pinMode(echoPin, INPUT);
 pinMode(red, OUTPUT);
 pinMode(green, OUTPUT);
 pinMode(blue, OUTPUT);
 Serial.begin(9600);
}
Void loop() {
 digitalWrite(trigPin, LOW);
 delayMicroseconds(2);
 digitalWrite(trigPin, HIGH);
 delayMicroseconds(10);
 digitalWrite(trigPin, LOW);
 duration = pulseIn(echoPin, HIGH);
 distance = duration * 0.034 / 2;
 Serial.println(distance);
If(distance>0 && distance<=50) {
```

```
RGB_color(255, 0, 0);
}
Else if(distance>50 && distance<=150) {
 RGB_color(255, 255, 0);
Else if(distance>150 && distance<=300) {
 RGB_color(0, 255, 0);
}
 Else{
  RGB_color(255,0,0); //on going out of range in tinkercad, it turns red
}
}
Void RGB_color(int red_value, int green_value, int blue_value)
{
analogWrite(red, red_value);
 analogWrite(green, green_value);
 analogWrite(blue, blue_value);
}
```