ASSIGNMENT-4

```
const int trigpin =5;
const int echopin=18;
#define sound_speed 0.034
long duration;
float distance;
void setup() {
 Serial.begin(115200);
 pinMode(trigpin,OUTPUT);
 pinMode (echopin,INPUT);
}
void loop() {
 digitalWrite(trigpin,LOW);
 digitalWrite(trigpin,HIGH);
 delayMicroseconds(10);
 digitalWrite(trigpin,LOW);
 duration =pulseIn(echopin,HIGH);
 distance= duration*sound_speed/2;
 Serial.println("distance"+String (distance) +"cm");
 if(distance<100)
  Serial.println("alert");
 }
 else
 Serial.println("no object near");
}
```

