```
int trigger_pin = 2;
int echo_pn = 3;
int buzzer_pin = 10;
int time;
int distace;
void setup()
{
        Serial.begin (9600);
        pinMode (trigger_pin, OUTPUT);
        pinMode ('echo_pin', INPUT);
        pinMode (buzzer_pin, OUTPUT);
}
void loop()
{
    digitalWrite (trigger_pin, HIGH);
    delayMicroseconds (10);
    digitalWrite (trigger_pin, LOW);
    time=pulseIn ('echo_pin', HIGH);
    distace = (time*0.034) / 2;
  if(distace<= 10)
        {
        Serial.println("Door Open");
        Serial.print("Distance=");
        Serial.println(distace);
        digitalWrite (trigger_pin, HIGH);
        delay (500);
        }
  else {
        Serial.println("Door closed");
        Serial.print("Distance=");
        Serial.println(distace);
        digitalWrite (trigger_pin, LOW);
        delay (500);
}
}
```