ASSIGNMENT 1

```
long dd, cm, inches;
void setup() {
 Serial.begin (9600);
 pinMode(9,OUTPUT);
void loop()
 pinMode(11, OUTPUT);
 digitalWrite(11, LOW);
 delayMicroseconds(5);
 digitalWrite(11, HIGH);
 delayMicroseconds(10);
 digitalWrite(11, LOW);
 pinMode(11, INPUT);
 dd = pulseln(11, HIGH);
 Serial.println(dd);
 cm = (dd/2) / 29.1;
 inches = (dd/2) / 74;
 if(inches > 57){
  digitalWrite(9, HIGH);
 }else if(inches < 4)
  digitalWrite(9, LOW);
 Serial.print(inches);
 Serial.print("in, ");
 Serial.print(cm);
 Serial.print("cm");
 Serial.println();
 delay(250);
}
```