ASSIGNMENT 1

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```
// C++ code
 #include
<Servo.h> int dist = 0;
long readUltrasonicDistance(int triggerPin, int echoPin)
{
  pinMode(triggerPin, OUTPUT); // Clear the trigger digitalWrite(triggerPin, LOW);
delayMicroseconds(2);
  // Sets the trigger pin to HIGH state for 10 microseconds digitalWrite(triggerPin,
  HIGH);
  delayMicroseconds(10);
  digitalWrite(triggerPin, LOW);
  pinMode(echoPin, INPUT);
  // Reads the echo pin, and returns the sound wave travel time in microseconds
  return pulseIn(echoPin, HIGH);
}
Servo servo_8; void
setup()
{
  servo_8.attach(8, 500, 2500); pinMode(2,
  INPUT); pinMode(12, OUTPUT);
  pinMode(A0, INPUT); pinMode(9, OUTPUT);
}
void loop()
{
```

```
dist = 0.01723 * readUltrasonicDistance(7, 7);
if (dist <= 100) {
 servo_8.write(90);
 delay(1000); // Wait for 1000 millisecond(s)
} else { servo 8.write(0);
 delay(1000); // Wait for 1000 millisecond(s)
}
if (digitalRead(2) == 1) { digitalWrite(12,
 HIGH);
 delay(1000); // Wait for 1000 millisecond(s)
} else {
 digitalWrite(12, LOW);
 delay(1000); // Wait for 1000 millisecond(s)
}
if (analogRead(A0) > 200) {
 digitalWrite(9, HIGH);
 delay(1000); // Wait for 1000 millisecond(s)
} else {
 digitalWrite(9, LOW);
 delay(1000); // Wait for 1000 millisecond(s)
}
```