

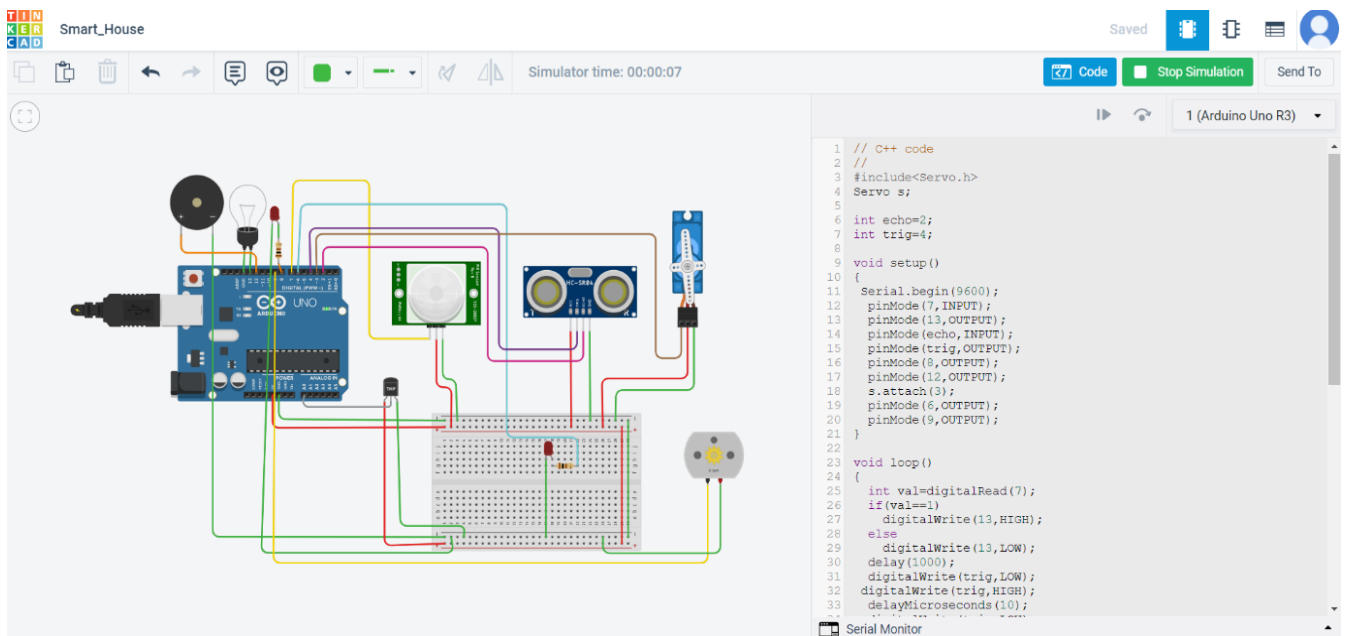
ASSIGNMENT-1

Smart Home-Tinkercad

Assignment Date	19 September 20
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Maximum Mark	2 Marks

Question-1:

Build a smart home in tinkercad use atleast 2 sensors ,led ,buzzer in a circuit . Simulate in a single code.



The screenshot displays the Tinkercad workspace for a project named "Smart_House". The circuit is built using an Arduino Uno R3, a breadboard, and several components: a light bulb, a buzzer, a servo motor, and two sensors (one green, one blue). The components are connected to the Arduino pins using colored wires. The right panel shows the C++ code for the simulation.

```
1 // C++ code
2 //
3 #include<Servo.h>
4 Servo s;
5
6 int echo=2;
7 int trig=4;
8
9 void setup()
10 {
11   Serial.begin(9600);
12   pinMode(7, INPUT);
13   pinMode(13, OUTPUT);
14   pinMode(echo, INPUT);
15   pinMode(trig, OUTPUT);
16   pinMode(8, OUTPUT);
17   pinMode(12, OUTPUT);
18   s.attach(3);
19   pinMode(6, OUTPUT);
20   pinMode(9, OUTPUT);
21 }
22
23 void loop()
24 {
25   int val=digitalRead(7);
26   if(val==1)
27     digitalWrite(13,HIGH);
28   else
29     digitalWrite(13,LOW);
30   delay(1000);
31   digitalWrite(trig,LOW);
32   digitalWrite(trig,HIGH);
33   delayMicroseconds(10);
```