Minor Project

Project Name: "Internet of Things Minor Project"

Project Description: Write an Arduino program for seven segment display. Simulate in wokwi simulator. (Display numbers from 0 to 9 add delay of 1 second after each number)

My Workwi project:

Downloaded from: https://wokwi.com/projects/436471027140649985

Simulate this project on https://wokwi.com

Arduino Uno Code:

```
const int segmentPins[] = \{2, 3, 4, 5, 6, 7, 8\}; // a to g
const byte digits [10][7] = \{
 \{1,1,1,1,1,1,0\}, // 0
 \{0,1,1,0,0,0,0\}, // 1
 \{1,1,0,1,1,0,1\}, // 2
 \{1,1,1,1,0,0,1\}, // 3
 \{0,1,1,0,0,1,1\}, // 4
 \{1,0,1,1,0,1,1\}, // 5
 \{1,0,1,1,1,1,1\}, // 6
 \{1,1,1,0,0,0,0,0\}, // 7
 \{1,1,1,1,1,1,1,1\}, // 8
 {1,1,1,1,0,1,1} // 9
};
void setup() {
 for (int i = 0; i < 7; i++) {
  pinMode(segmentPins[i], OUTPUT);
}
void loop() {
 for (int i = 0; i < 10; i++) {
  for (int seg = 0; seg < 7; seg++) {
    digitalWrite(segmentPins[seg], digits[i][seg]);
  delay(1000);
```

```
}
Diagram.json:
 "version": 1,
 "author": "Srinidhi",
 "editor": "wokwi",
 "parts": [
  { "type": "wokwi-arduino-uno", "id": "uno", "top": 0.6, "left": -0.6, "attrs": {} },
   "type": "wokwi-7segment",
   "id": "sevseg1",
   "top": -52.62,
   "left": -110.12,
   "attrs": { "common": "cathode" }
 ],
 "connections": [
  ["sevseg1:B", "uno:3", "green", ["v-37.56", "h278.4"]],
  [ "sevseg1:A", "uno:2", "green", [ "v-18.36", "h307.2" ] ],
  [ "sevseg1:C", "uno:4", "green", [ "v-67.2", "h278.4" ] ],
  ["sevseg1:D", "uno:5", "green", ["v-57.6", "h288"]],
  [ "sevseg1:E", "uno:6", "green", [ "v-48", "h288" ] ],
  [ "sevseg1:F", "uno:7", "green", [ "v-66.36", "h259.2" ] ],
  ["sevseg1:G", "uno:8", "green", ["v-56.76", "h268.8"]],
  [ "sevseg1:COM.1", "uno:GND.1", "green", [ "h0", "v-38.4", "h201.6" ] ],
  [ "sevseg1:COM.2", "uno:GND.2", "green", [ "h0", "v-47.16", "h76.8", "v316.8",
"h182.4"]]
```

],

"dependencies": {}