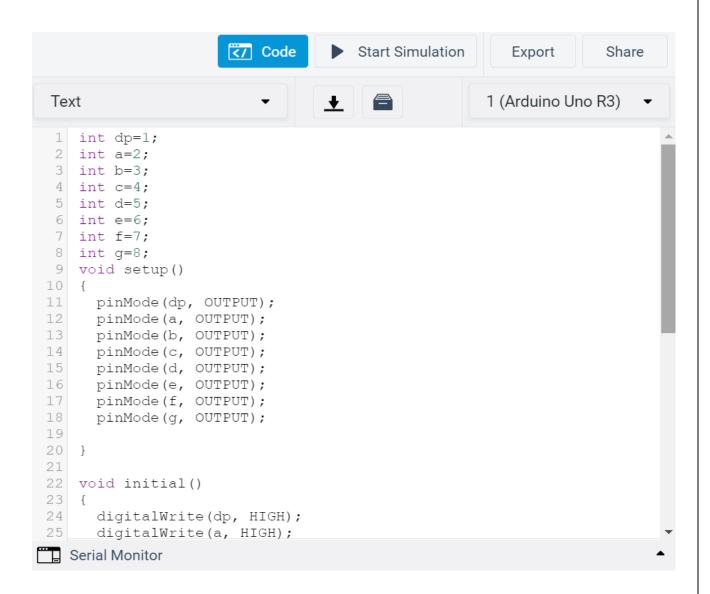
## **EXPERIMENT 2(a)**

**AIM-** Display pattern on seven segment.

**SIMULATOR-** Tinkercad.

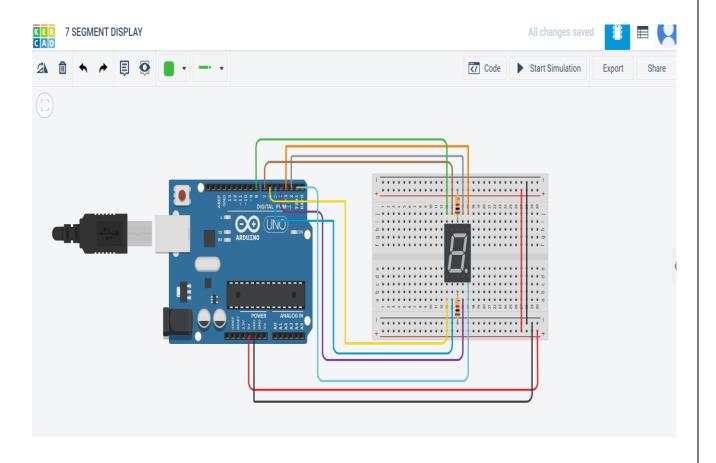
**EQUIPMENT REQUIRED** - Arduino Uno R3, 7 Segment display, Breadboard, 2 Resistor(1  $k\Omega$ )

### PROGRAM CODE-

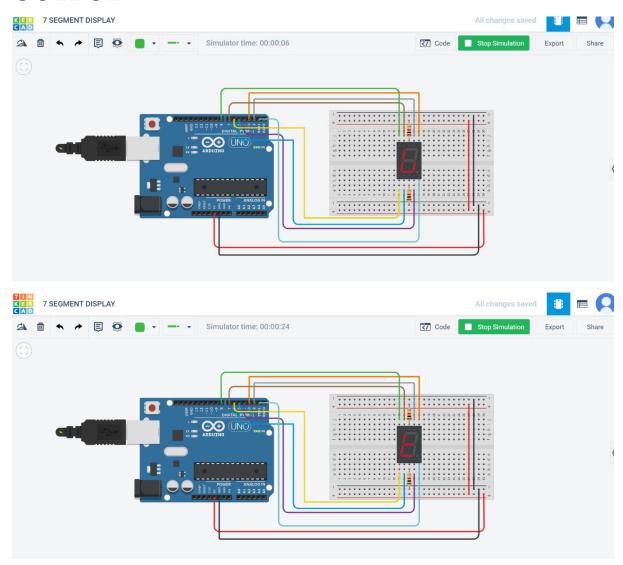


```
₹7 Code
                                     Start Simulation
                                                         Export
                                                                     Share
Text
                                  <u>*</u>
                                                      1 (Arduino Uno R3)
26
      digitalWrite(b, HIGH);
27
      digitalWrite(c, HIGH);
28
      digitalWrite(d, HIGH);
29
      digitalWrite(e, HIGH);
30
      digitalWrite(f, HIGH);
31
      digitalWrite(g, LOW);
32
33
   void loop()
34
35
      int i;
36
      initial();
37
      delay(2000);
38
39
      for(i=1;i<=8;i++)
40
41
        digitalWrite(i,LOW);
42
        delay(2000);
43
44
      for(i=8;i>0;i--)
45
46
        digitalWrite(i, HIGH);
        delay(2000);
47
48
49
50
Serial Monitor
```

### **CIRCUIT DIAGRAM-**



## **OUTPUT-**



**CONCLUSION-** The simulation was a success.

# **EXPERIMENT 2(b)**

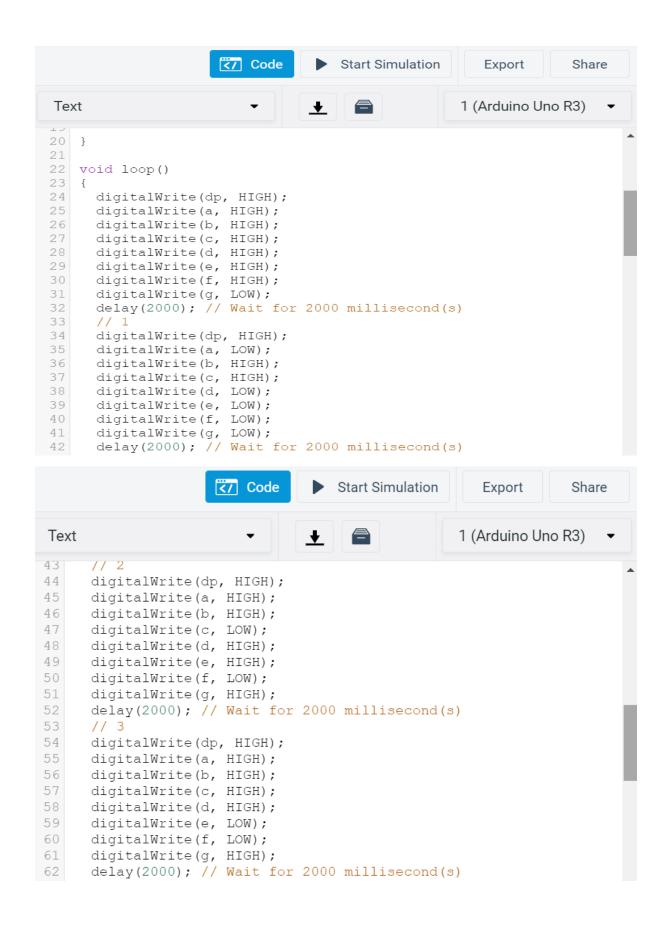
**AIM-** Display 0-9 on seven segment.

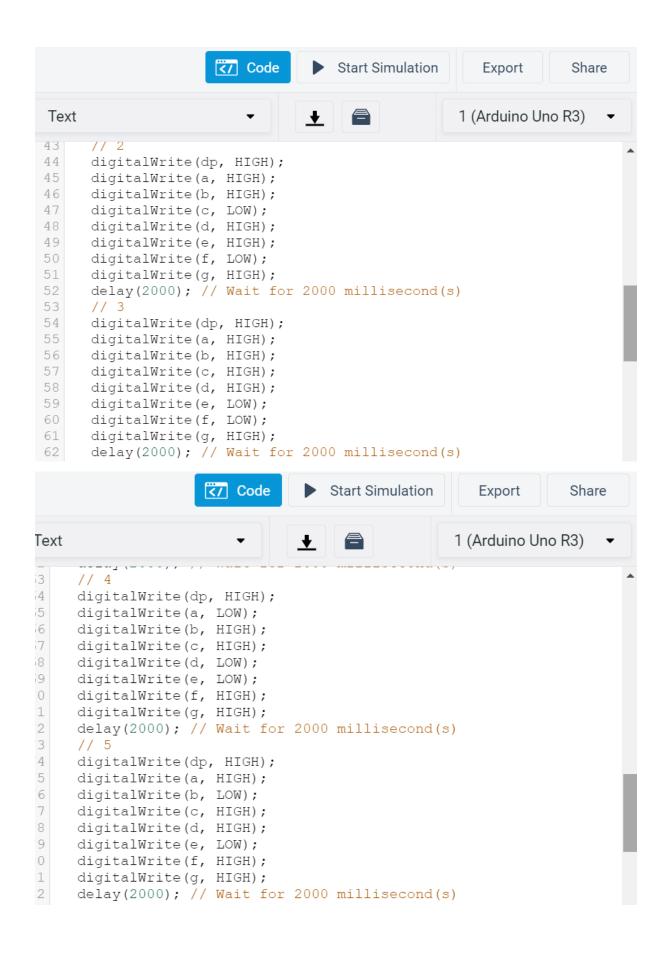
SIMULATOR- Tinkercad.

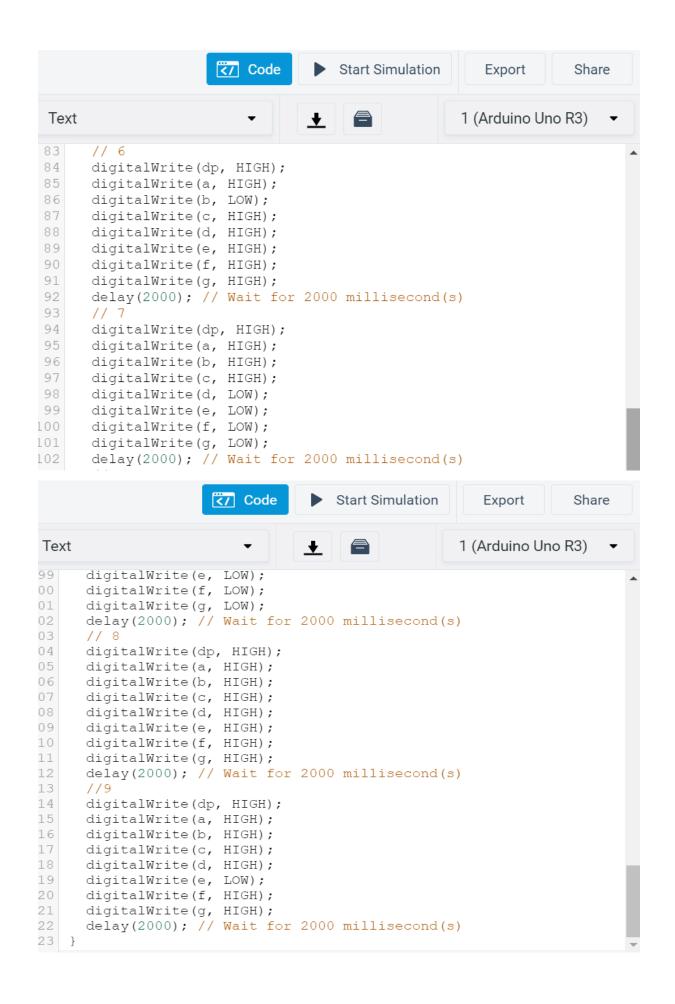
**EQUIPMENT REQUIRED-** Arduino Uno R3, 7 Segment display, Breadboard, 2 Resistor(1 k $\Omega$ )

### PROGRAM CODE-

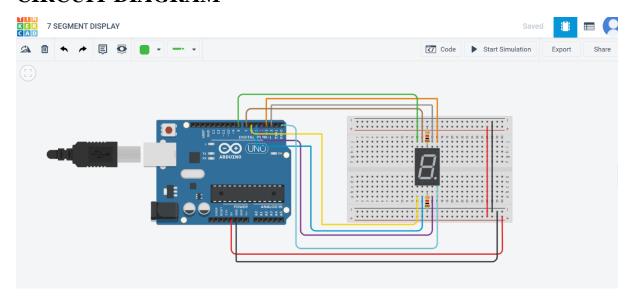




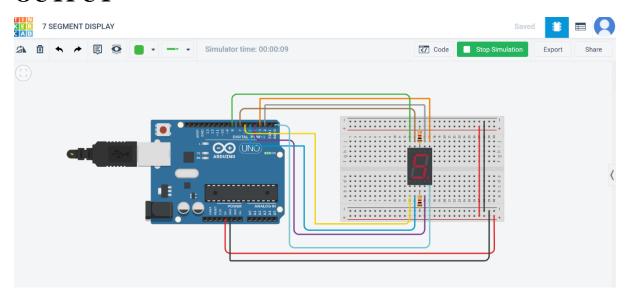




### **CIRCUIT DIAGRAM-**



### **OUTPUT-**



**CONCLUSION-** The simulation was success.