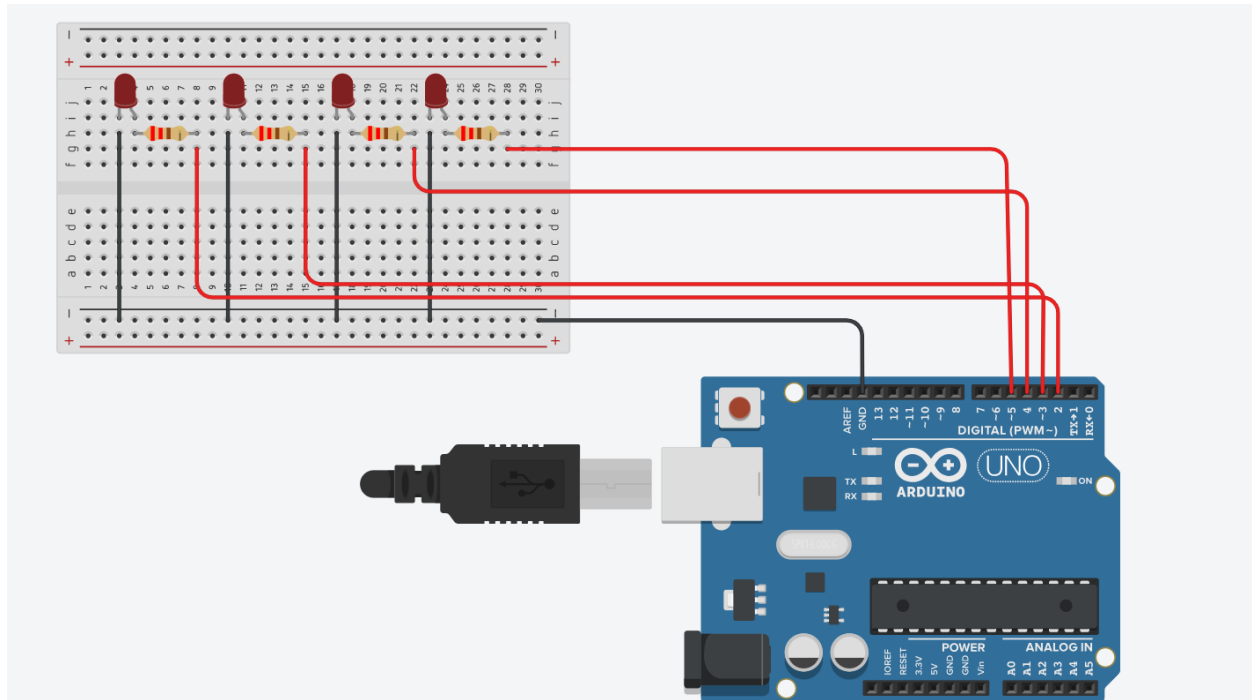


Assignment – 3

4-Bit counter using LED. Please design circuit and write program inTinkercad for 4-bit counter using LED [Use “for” loop in code]

Circuit :



Code :

```
void setup() {  
  
  pinMode(2, OUTPUT);  
  pinMode(3, OUTPUT);  
  pinMode(4, OUTPUT);  
  pinMode(5, OUTPUT);  
}
```

```
void loop() {  
  
  for (int count = 0; count < 16; count++) {  
  
    digitalWrite(2, (count & 0b0001)); // Bit 0  
    digitalWrite(3, (count & 0b0010) >> 1); // Bit 1  
    digitalWrite(4, (count & 0b0100) >> 2); // Bit 2  
    digitalWrite(5, (count & 0b1000) >> 3); // Bit 3  
  
    delay(500);  
  }  
}
```

Link :

<https://www.tinkercad.com/things/1GV5j3e5Ele/editel?returnTo=%2Fthings%2FiJnb3FVLbZU-spectacular-maimu>