

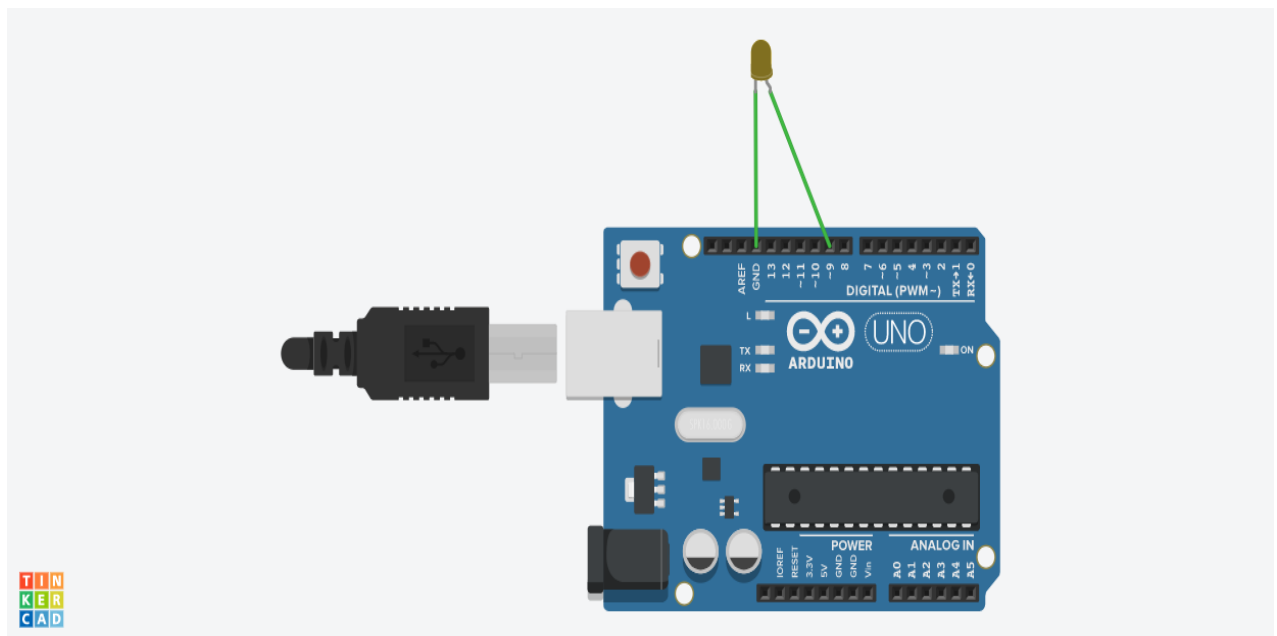
Program no : 04

Program Title : LED Fading

Hardware Required :

- Arduino Board
- Wires
- LED

Circuit Diagram :



Code:

```
Text 1 (Arduino Uno R3)
1  int brightness=0;
2  void setup() {
3      pinMode(9,OUTPUT);
4  }
5
6  void loop()
7  {
8      for(brightness=0; brightness<=255; brightness+=10)
9      {
10         analogWrite(9,brightness);
11         delay(40);
12     }
13     for(brightness=255; brightness>=0; brightness-=10)
14     {
15         analogWrite(9,brightness);
16         delay(40);
17     }
18 }
```

Observation /Output :

