

No:

Date:

## Program: 4 - Fading LED

Aim: Demonstrate fading of a LED

Hardware Required: Arduino Board, LED, connecting wire, resistor.

Code:

```
int brightness = 0;  
void setup ()  
{ pinMode (11, OUTPUT); }  
void loop ()  
{ for (brightness = 0; brightness <= 255;  
      brightness += 5)  
  { analogWrite (11, brightness);  
    delay (30);  
  }  
  for (brightness = 255; brightness >= 0; brightness -= 5)  
  { analogWrite (11, brightness);  
    delay (30); }  
}
```

*hmf*