# Name – Parag Gattani

Program No. – 03

Program Title – LED fading without potentiometer

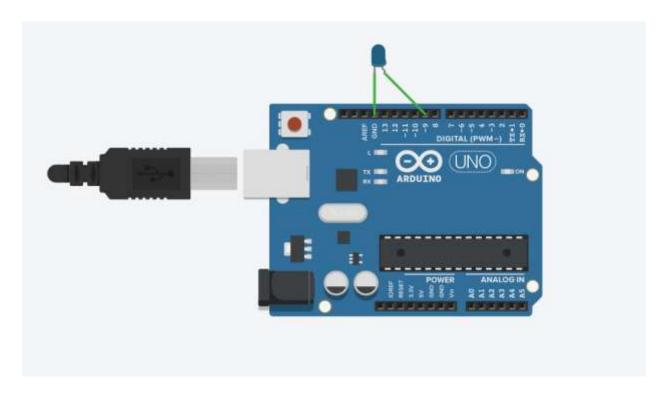
#### **AIM**

Demonstrate to show LED fading.

#### **HARDWARES REQUIRED**

- Arduino Board
- LED bulb

## **CIRCUIT DIAGRAM**



## **WRITE-UP**

ARM:  Demonstrate to brow LED forling.  Hardware - Required:  Andrino Board  LED Bullo  Codi:  vold satup()  panMode (2, OUTPUT);  Jong Sert fode=0; fode (=255; food +=5)  analog White (9, fode);  delay (50);  for ( Int fode=255; fode 7=0; foode=5)  analog Write (9, fode);  duay (80);	Exp. 4	USN-18M18C5067
Demonstrate to show LED fading.  Hardware-Righted:  Andrino Board  LED Bulb  Codi:  vold situp()  penMode (2, OUTPUT);  Vold lap()  for ( lent fade=0; fade <= 255; fade += 5)  analog White (9, fade);  delay (30);  for ( lent fade=255; fade >= 0; fade == 5)	1	A LED FADING
Andrew Board  LED Bullo  Code:  yord situpe:)  penMode (2, OUTPUT);  yord loop()  for ( but fade=0; fade <= 255; fade += 5)  analog Write (9, fade);  delay(30);  for ( but fade=205; fade >= 0; fade == 5)		ARM:- Demonstrate to show LED fading.
yord situp()  penMode (2, OUTPUT);  yord (ap()  for ( lent fade=0; fade <=255; fade +=5)  analog (Mete (9, fade);  delay (30);  for ( lent fade=255; fade>=0; fade=5)		Andrieno Board
for ( lent fade=0; fade <=255; fack +=5)  analog Write (9, fade); delay (30);  for ( lent fade=255; fade >=0; fade=5)		penMode (2, OUTPUT);
unalog weste (a, fade); dulay (30);		for ( ent fade=0; fade <=255; fack+=5)  analog (Meste (9, fade);  delay (30);
		analog Weste (a, fode); dulay (so);

# CODE

```
void setup()
{
 pinMode(2, OUTPUT);
}
void loop()
{
 for(int fade =0;fade <=255; fade+=5)
 {
  analogWrite(9,fade);
     delay(30);
 }
 for(int fade = 255; fade>=0;fade-=5)
 {
     analogWrite(9, fade);
  delay(30);
 }
```

# **OUTPUT**

Fading of LED.