Name – Parag Gattani

Program No. – 03

Program Title – LED fading without potentiometer

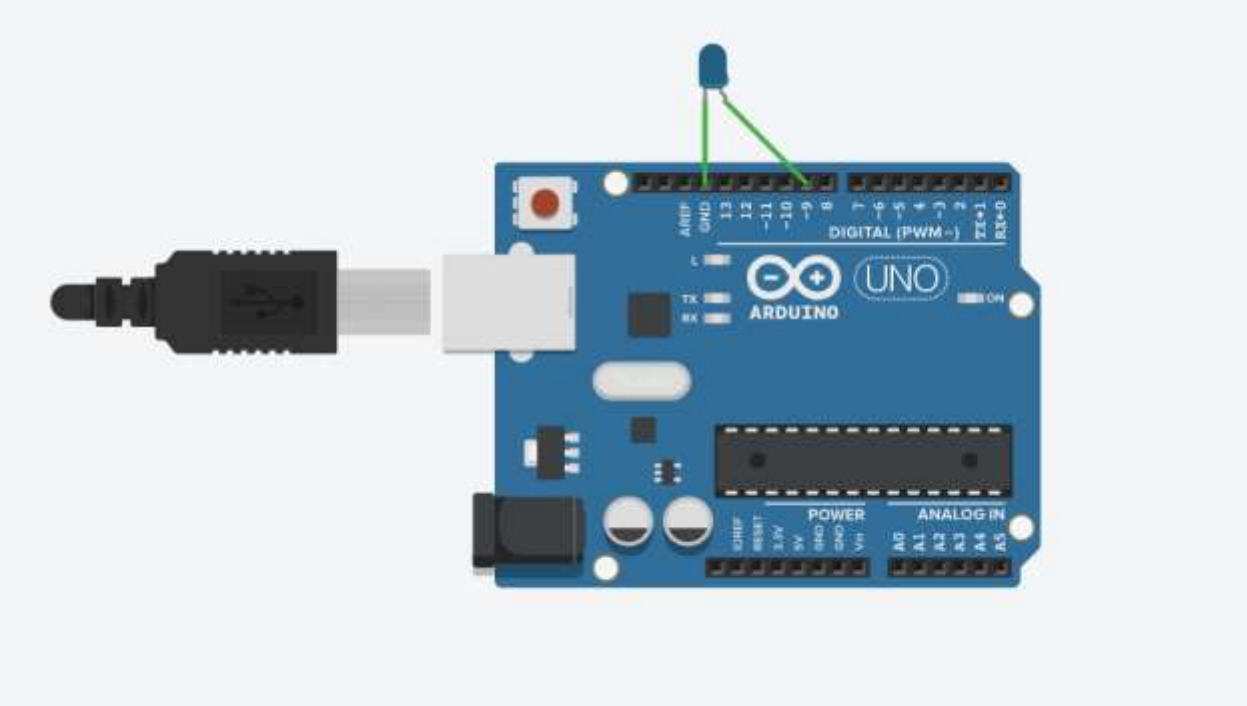
AIM

Demonstrate to show LED fading.

HARDWARES REQUIRED

- Arduino Board
- LED bulb

CIRCUIT DIAGRAM



WRITE-UP

Name - Parag Gattani
USN - 1BM18CS067

23/09/2020

Exp. 4

LED FADING

Aim :-
Demonstrate to show LED fading.

Hardware - Required :-
Arduino Board
LED Bulb

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);
    }
}
```

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.