

## Lab 2 : Program 3(ii)

Date : 23/09/20

Experiment : LED Analog Fade

Aim: To make LED fade analog.

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Hardware :

- Arduino Uno Board
- LED
- 220 Ohm Resistor

Source Code :

```
int led = 3;
int brightness = 0;
int fadeAmount = 5;

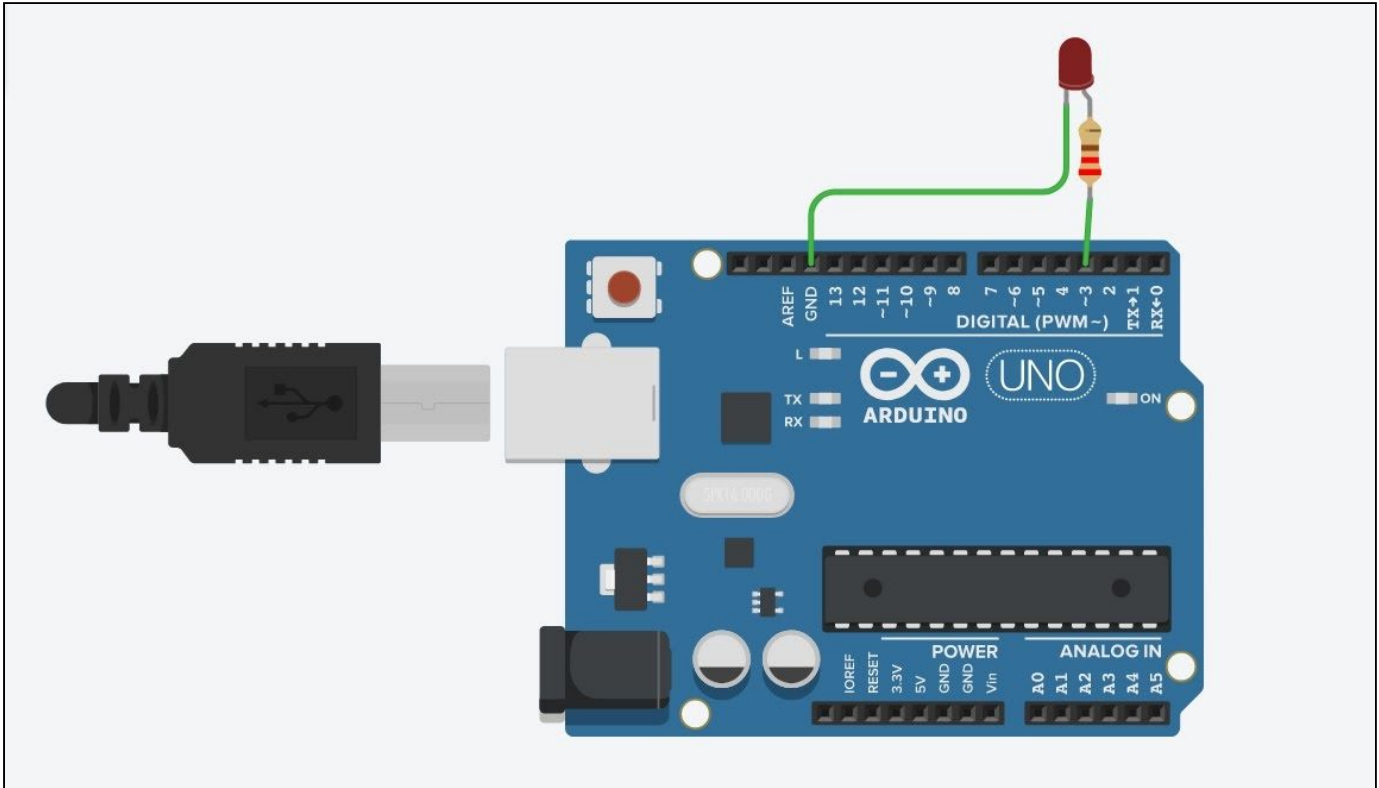
void setup()
{
  pinMode(led, OUTPUT);
}

void loop()
{
  analogWrite(led, brightness);
  brightness = brightness + fadeAmount;
  if (brightness == 0 || brightness == 255)
  {
    fadeAmount = -fadeAmount ;
  }
  delay(100);
}
```

Observation : LED glows and then fades.

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Circuit :



Write :

Source Code:

23/09/20

```
int led = 3;
int brightness = 0;
int fadeAmount = 5;

void setup() {
  pinMode(led, OUTPUT);
}

void loop() {
  analogWrite(led, brightness);
  brightness = brightness + fadeAmount;
  if (brightness == 0 || brightness == 255) {
    fadeAmount = -fadeAmount;
  }
  delay(100);
}
```

Circuit Diagram

Observation : The LED fades and glows periodically.