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Program + LED FADING.

Aim + Demonstrate to show LED fading (Analog)
                                                output.

· Hardware Required
· Arduino board
- LED

Code +

```
int brightness = 0;
void setup()
{ Pin Mode (9, OUTPUT);
}

void loop()
{ for(brightness = 0; brightness <= 255; brightness +
                                              = 10)
}

    analogwrite (9, brightness);
    delay [50];

}
    for (brightness = 255; brightness >= 0; brightness = 10)

    {
    analoguwrite (9, brightness);
    delay (50);
    }
}
```

Circuit -diagram.

3V3   5V   Vin

RST

AREF

ARDUINO

D13

D12

D11 PNN

D10 PNM

D9 PNM

D8

D7

D6 PWM

D5 Pwm

D5 PNSM

D4 8-PWM

D3

D2

D1 Tx 4

D0 Rx 4

A0

A1

A2

A3

A4

A5

GND

R_1

LED