EXP3

LED FADING WITH Potentiometer

Aim :-

Demonstrate to show LED fading (Analog Output)

Hardware Required:

Arduino Board
Potentiometer
LED Bulb

CODE :-

```
int LED-PIN=9;
void setup()
{
    Serial.begin (9600);
    pinMode (LED-PIN, OUTPUT);
}

void loop()
{
    int analogvalue = analogRead (A0);
    int brightness = map( analogvalue, 0, 1023, 0,
                                                255);
    analogwrite ( LED-PIN, brightness);
    Serial.print ( "Analog : ");
    Serial.print (analog value);
    Serial.print ( " Brightness : ");
    Serial.println ( brightness);
```

delay (100);

}

V_c (5v)

RST

REF

Arduino

Potentiometer

A5

A4

A3

A2

A1

A0

D 15
D 14
D 13
D 12
D 11
D 10
D 9
D 8
D 7
D 6
D 5
D 4
D 3
D 2
D 1
D 0

GND