Name: Shreya Laddhe
USN : 1BM18CS103

PROGRAM NO : 5

PROGRAM TITLE : LED FADING WITH POTENTIOMETER

Aim : Demonstrate to show LED fading (Analog Output)

Hardware Required :
- Arduino Board
- Potentiometer
- LED

Code :

```
int ledPin = 9
void setup()
{
    Serial.begin(9600);
    pinMode (ledPin, OUTPUT);
}
void loop()
{   int analogValue = analogRead (A0);
    int brightness = map (analogValue, 0, 1023 0, 255);
    analogWrite (ledPin, brightness);
    Serial.print ("Analog : ");
    Serial.print (AnalogValue);
    Serial.print (". Brightness : ");
    Serial.println (brightness);
    delay(100);
}
```

Teacher's Signature : _____ Shreya

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Vcc (5V)

RST

REF

Arduino

A5
A4
A3
A2
A1
A0

D15
D14
D13
D12
D11
D10
D9
D8
D7
D6
D5
D4
D3
D2
D1
D0

Potentiometer

GND

Shreya