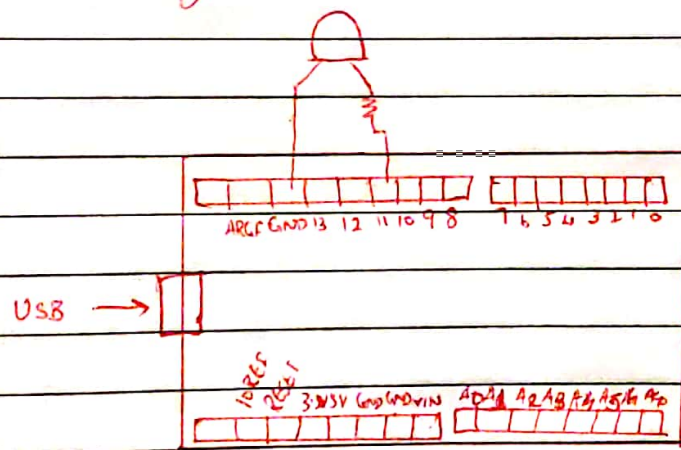V.K Pruthvik Aniketh

IBN18CS119

Program no: 3

Program Title : LED Fading

Aim : To demonstrate LED fading.

Hardware Required :

1) Aurduino uno board.
2) LED
3) Connecting wire
4) 1kΩ resistor

Circuit diagram :

Code :

```
int bright = 0
void setup ()
    {
        pinmode (11, output)
    }

    void loop ()
    { for (bright = 0, bright <= 255; bright + = 5)
        analog write (11, bright);
```

```
        delay (30);
    }

    for (bright = 255, bright >= 0, bright -= 5
        AnalogWrite (11, bright);
        delay (30);
    }
}
```

observation /output: The led fades in and out at 30 millisecond intervals.