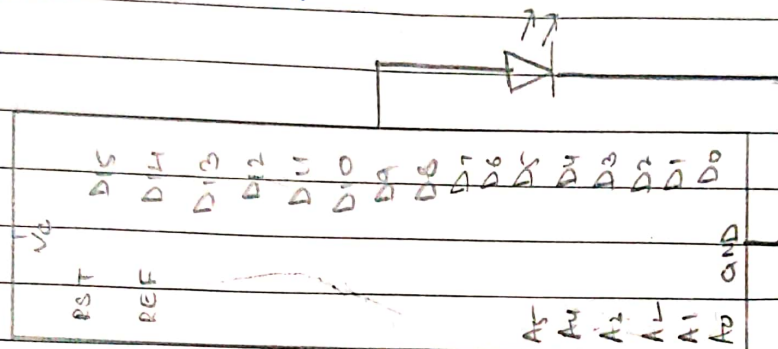PROGRAM NO: 4

PROGRAM TITLE: Fading LED

AIM: Demonstrate to show Fading LED

HARDWARE REQUIRED: Arduino Board, LED, Connecting wire, Resistor

CIRCUIT DIAGRAM:

CODE:

```
int brightness = 0;
void setup()
    { pinMode(11, OUTPUT); }
void loop()
{
    for (brightness =0; brightness <= 255; brightness+=5)
    { analogwrite(11, brightness);
        delay(30);
    }
    for (brightness =255; brightness >=0; brightness-=5)
    { analog write (11, brightness);
        delay(30);
    }
}
```