

Program - 4 LED Fading

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

void loop()
{
    for (brightness = 0; brightness <= 255;
        brightness += 10)
    {
        analogWrite(9, brightness);
        delay(40);
    }
    for (brightness = 255; brightness >= 0;
        brightness -= 10)
    {
        analogWrite(9, brightness);
        delay(40);
    }
}
```