

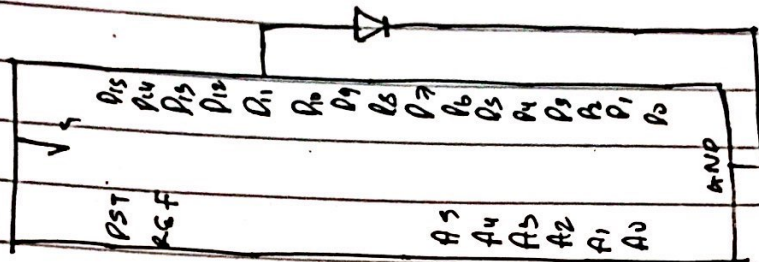
Program: 4 - FADING LED

Aim: Demonstrate fading of a LED

HARDWARE REQUIRED: Arduino Board, LED, Connecting wire, resistor.

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Circuit diagram



Code:

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