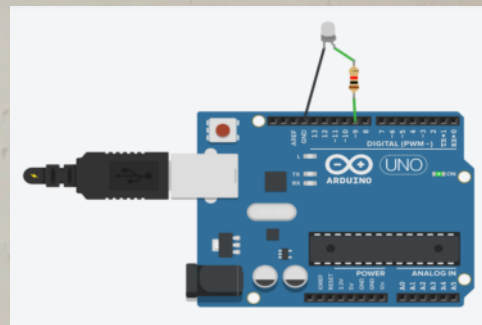
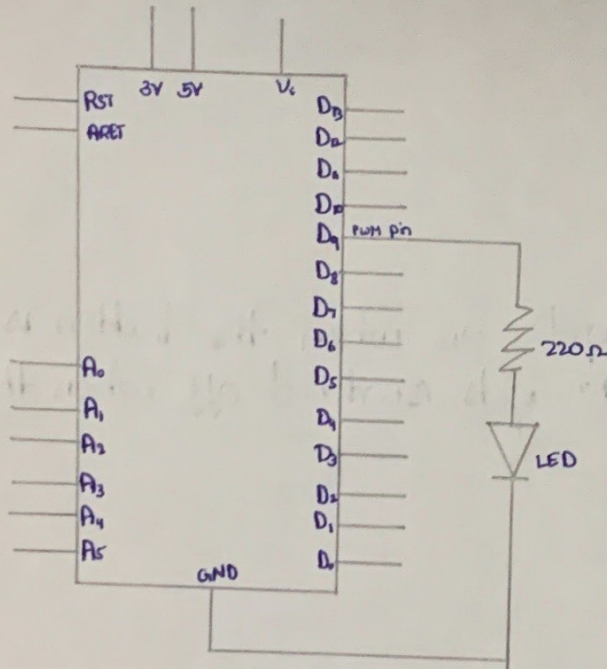


Title : Dimming LED

Aim : To fade the LED gradually and to light up gradually.

Hardware Required: Arduino Board, Resistor, LED

Circuit Diagram:



Code:

```
int brightness = 0;
void setup()
{
  pinMode(9, OUTPUT);
}
void loop()
{
  for (brightness = 0; brightness <= 255; brightness += 5)
  {
    analogWrite(9, brightness);
    delay(30);
  }
  for (brightness = 255; brightness >= 0; brightness -= 5)
  {
    analogWrite(9, brightness);
    delay(30);
  }
}
```

Observation/Output:
The light get faded completely and power up again.