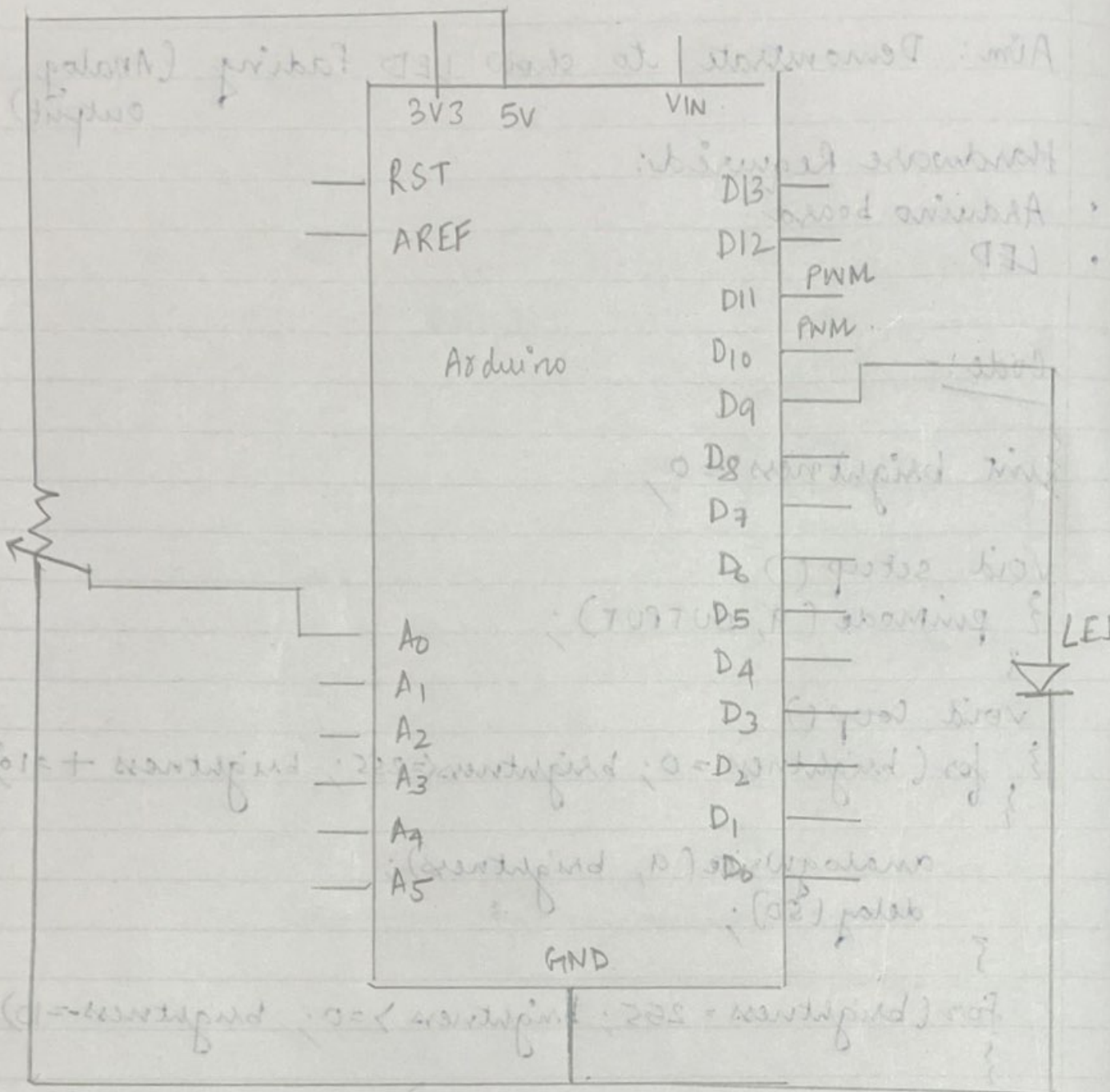


# CIRCUIT DIAGRAM



PROGRAM TITLE: LED FADING (USING Potentiometer)

Aim: To demonstrate LED fading using potentiometer.

Hardware Required:-

- Arduino Board.
- LED.
- Potentiometer.

CODE:

```
int LED_PIN = 9;
void setup()
{
  Serial.begin(9600);
  pinMode(LED_PIN, OUTPUT);
}

void loop()
{
  int analogValue = analogRead(A0);
  int brightness = map(analogValue, 0, 1023, 0, 255);
  analogWrite(LED_PIN, brightness);
  Serial.print("Analog: ");
  Serial.print(analogValue);
  Serial.print(", Brightness: ");
  Serial.println(brightness);
  delay(100);
}
```

Teacher's Signature : \_\_\_\_\_