

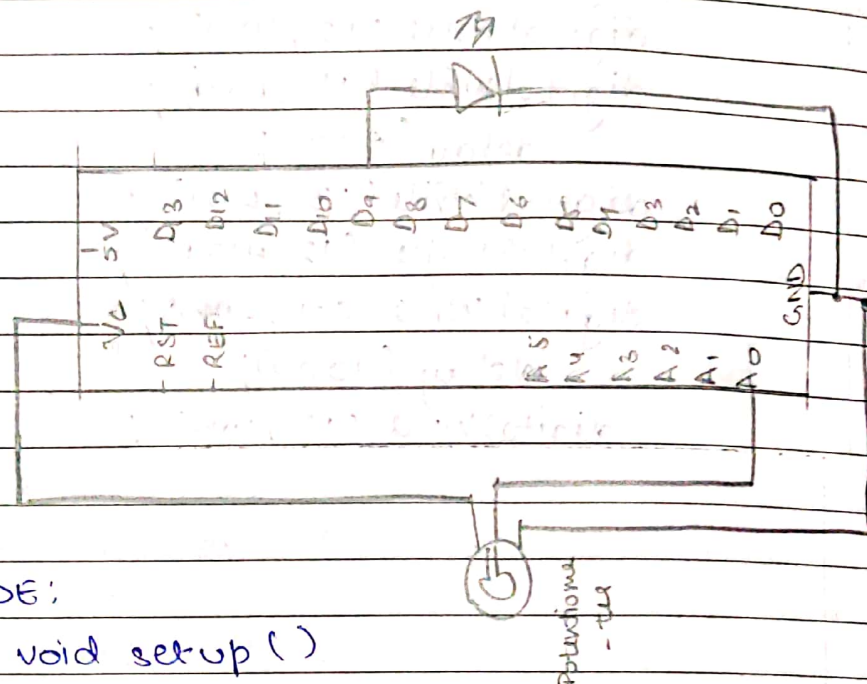
PROGRAM NO : 3

PROGRAM TITLE : ~~FADING~~ LED using Potentiometer

AIM : Demonstrate to show LED fading (Analog output)

HARDWARE REQUIREMENTS : Arduino Board, LED, connecting wire, Resistor

CIRCUIT DIAGRAM:



CODE:

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

void loop()
{
    int analog = analogRead(A0);
    int brightness = map(analog, 0, 1023, 0, 255);
    analogWrite(9, brightness);
    Serial.print("In Analog value ");
    Serial.print(analog);
    Serial.print("In Brightness value ");
    Serial.print(brightness);
}
```