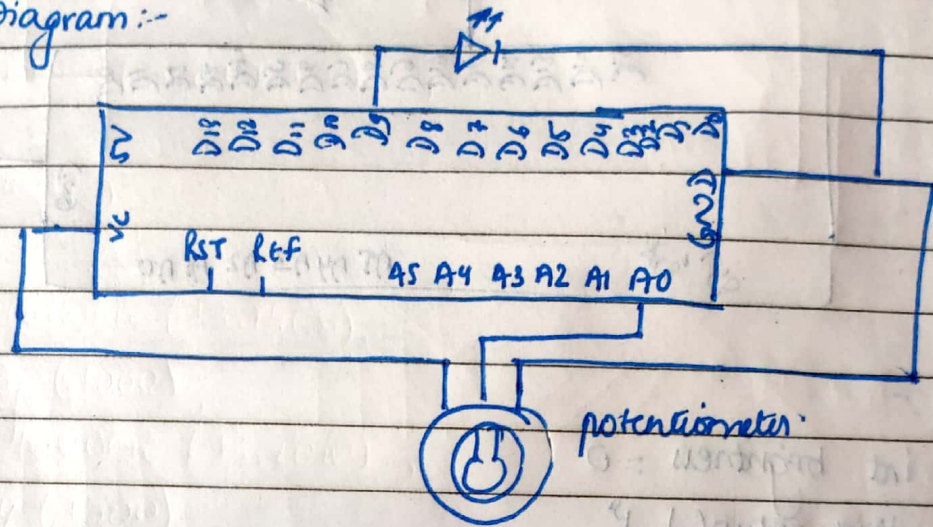


Program: 3 - Fading LED using Potentiometer

Aim: Demonstrate a fading LED (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("\n Analog Values:");
  Serial.print(analog);
  Serial.print("\n Brightness value");
  Serial.print(brightness);
}
```

Rishav