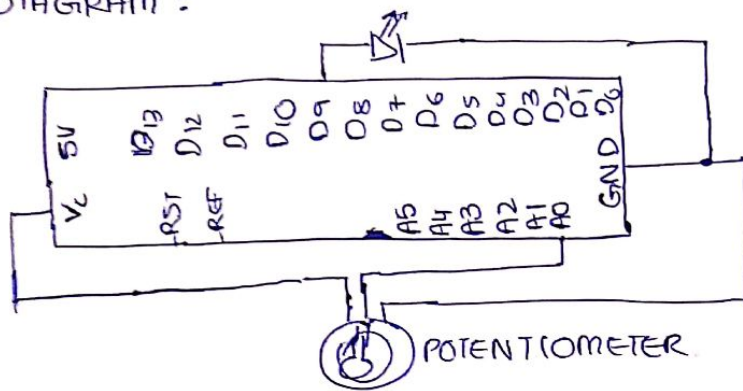


AIM : Demonstrate a fading LED (analog output)

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 (a, brightness);
  Serial.print ("\n Analog Values : ");
  Serial.print (analog);
  Serial.print ("\n Brightness value ");
  Serial.print (brightness);
}

```

Vivek