

26-09-2020

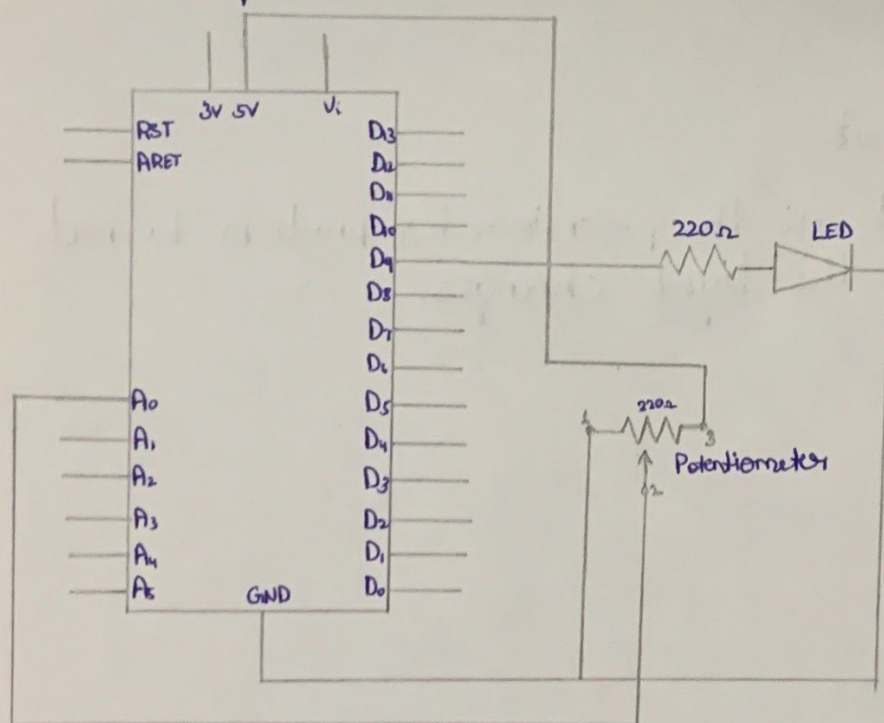
PROGRAM-5

Title: Potentiometer LED

Aim: To adjust the lighting brightness with potentiometer.

Hardware Required: Arduino Board, Resistor, Potentiometer, Wires,

Circuit Diagram:



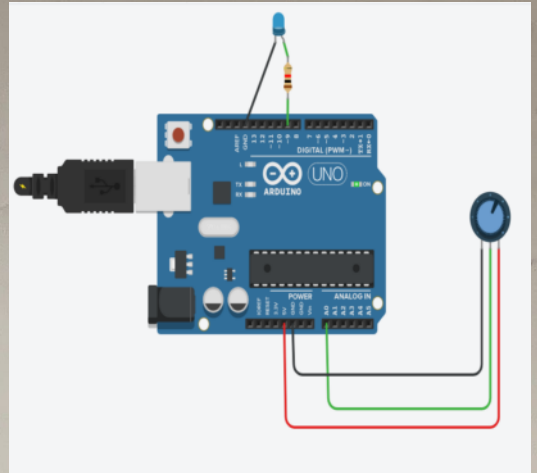
Code:

```
int ledPin = 9;
void setup()
{
  Serial.begin(9600);
  pinMode(ledPin, OUTPUT);
}
void loop()
{
  int analogValue = analogRead(A0);
  int brightness = map(analogValue, 0, 1023, 0, 255);
```

```

analogWrite (ledPin , brightness);
Serial.print ("Analog : ");
Serial.print (analogValue);
Serial.print (" Brightness: ");
Serial.print (brightness);
delay (100);
}

```



Observation / Output:

We can see that as the potentiometer knob is turned, the brightness of the light changes.