IOT 5TH SEM LAB

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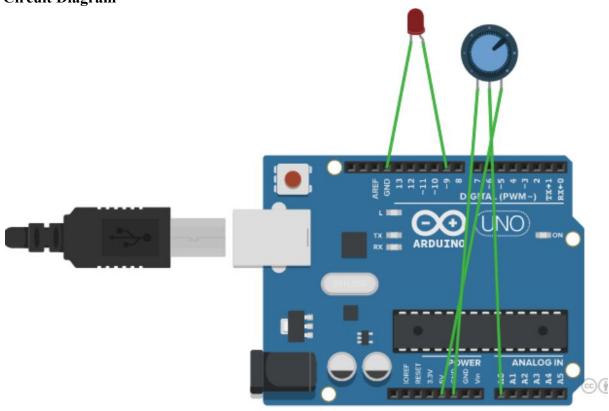
Program no04_	
Program Title	POTENTIOMETER

Aim-to control brightness of led bulb using potentiometer

Hardware Required

- Arduino uno Board
- led bulb
- resistor 100 ohm
- potentiometer
- jump wires

Circuit Diagram



```
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);
}
```

Observation /Output-the brightness of led bulb increased/decreased upon turning the potentiometer knob