

IOT LAB - 5th Sem

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Program Title : Vibration + LDR

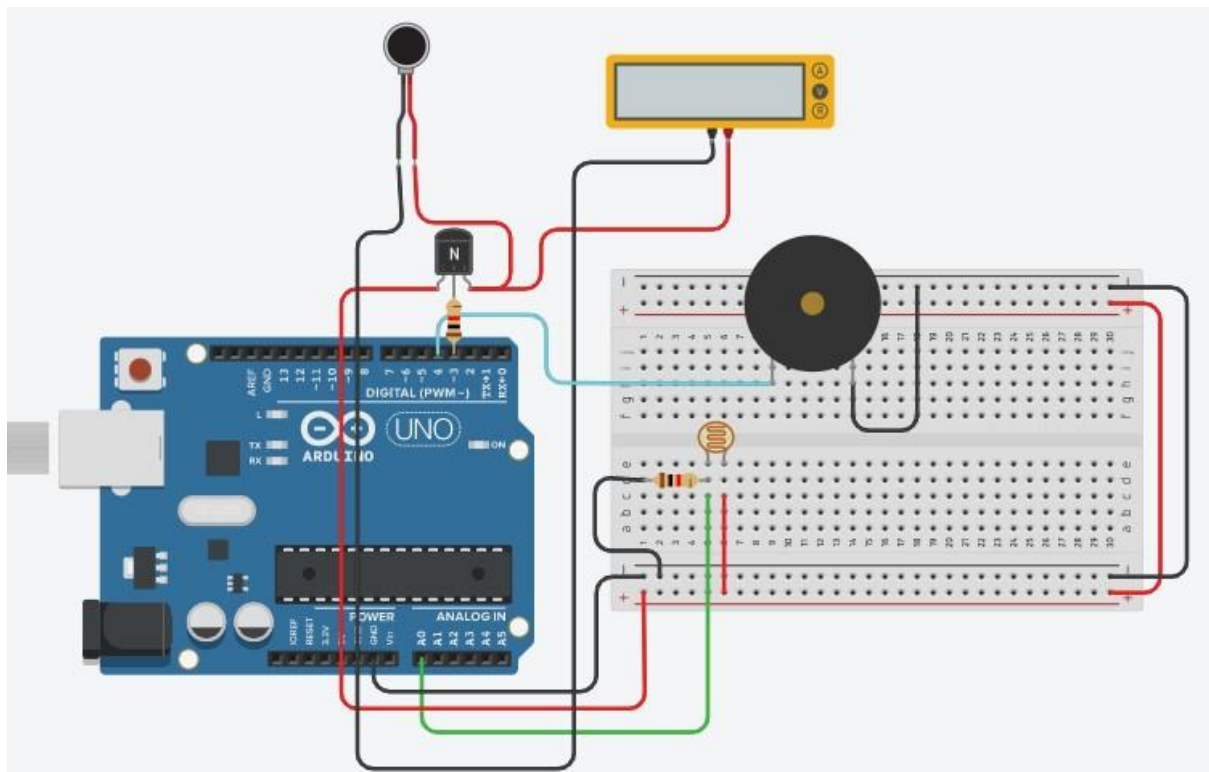
Aim :

To turn on the vibrator when the LDR detects light using an Arduino Uno board.

Hardware Required :

- Arduino Uno Board
- NPN Transistor
- Multimeter
- Vibrator Motor
- 1K Ohm Resistor X 2
- LDR
- Buzzer

Circuit Diagram :



Written Code :

13) Vibration Motor - LDR

```
int sensor value;  
void setup()  
{  
  pinMode(3, OUTPUT);  
  Serial.begin(9600);  
}  
void loop()  
{  
  sensor value = analogRead(A0);  
  Serial.println(sensor value);  
  if (sensor value > 400){  
    digitalWrite(3, HIGH);  
  }  
  else{  
    digitalWrite(3, LOW);  
  }  
}
```

Observation /Output :

The vibrator and buzzer turns on once the LDR detects light.