

# IOT LAB - 5th Sem

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Program No : 12

Program Title : Vibration + LDR

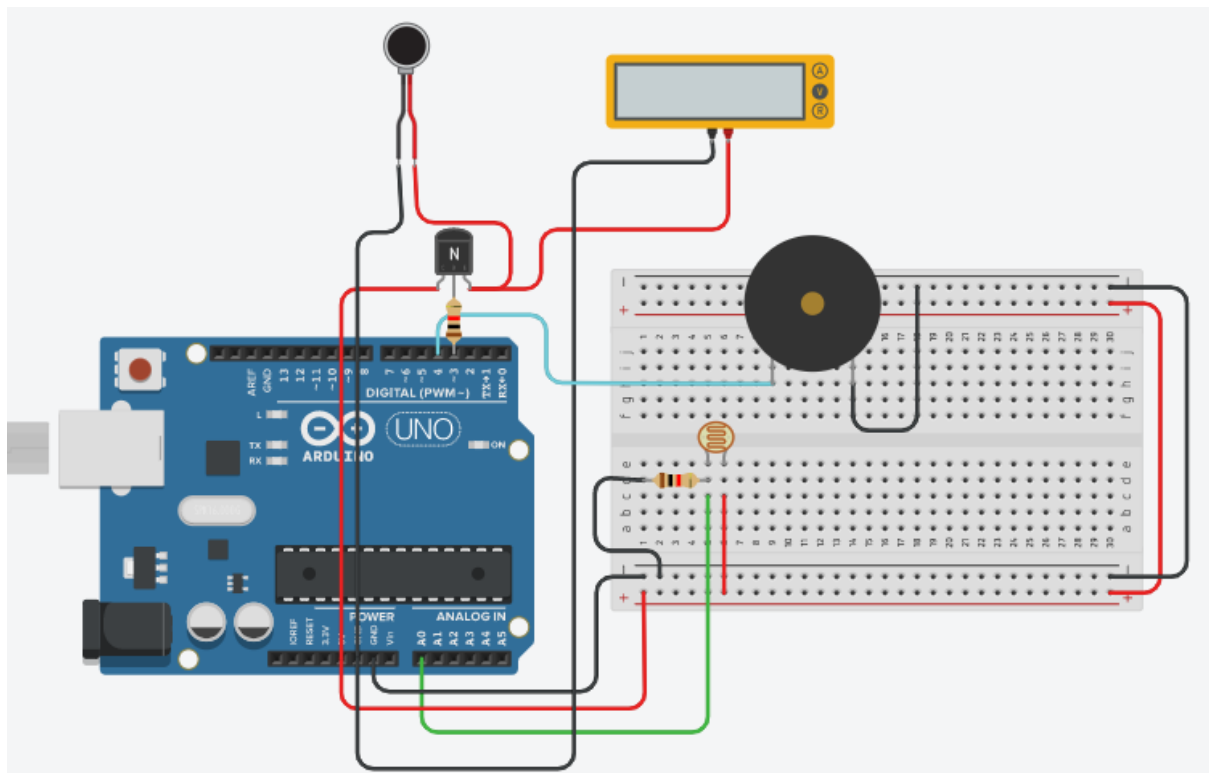
Aim :

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 :

## TOT LAB - 12

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```
int motorPin = 3;  
int sensorPin = A0;  
int threshold = 400;
```

```
void setup()
```

```
{  
  pinMode(motorPin, OUTPUT);  
  pinMode(4, OUTPUT);  
  Serial.begin(9600);  
}
```

```
void loop()
```

```
{
```

```
  int sensorValue = analogRead(sensorPin);
```

```
  Serial.println(sensorValue);
```

```
  if (sensorValue >= threshold)
```

```
  {
```

```
    digitalWrite(motorPin, HIGH);
```

```
    digitalWrite(4, HIGH);
```

```
    Serial.println("Buzz Buzz, its ya bci lightyear");
```

```
  }
```

```
  else {
```

```
    digitalWrite(motorPin, LOW);
```

```
  }
```

```
  delay(1500);
```

```
  digitalWrite(4, LOW);
```

```
}
```

### Observation /Output :

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