

## Lab 5 : Program 12

Date: 14/10/20

Experiment : Vibration Motor

Aim: To demonstrate use of a Vibration motor.

---

Hardware:

- Arduino Uno
- Vibration Motor
- LDR
- Resistor 220 Ohm

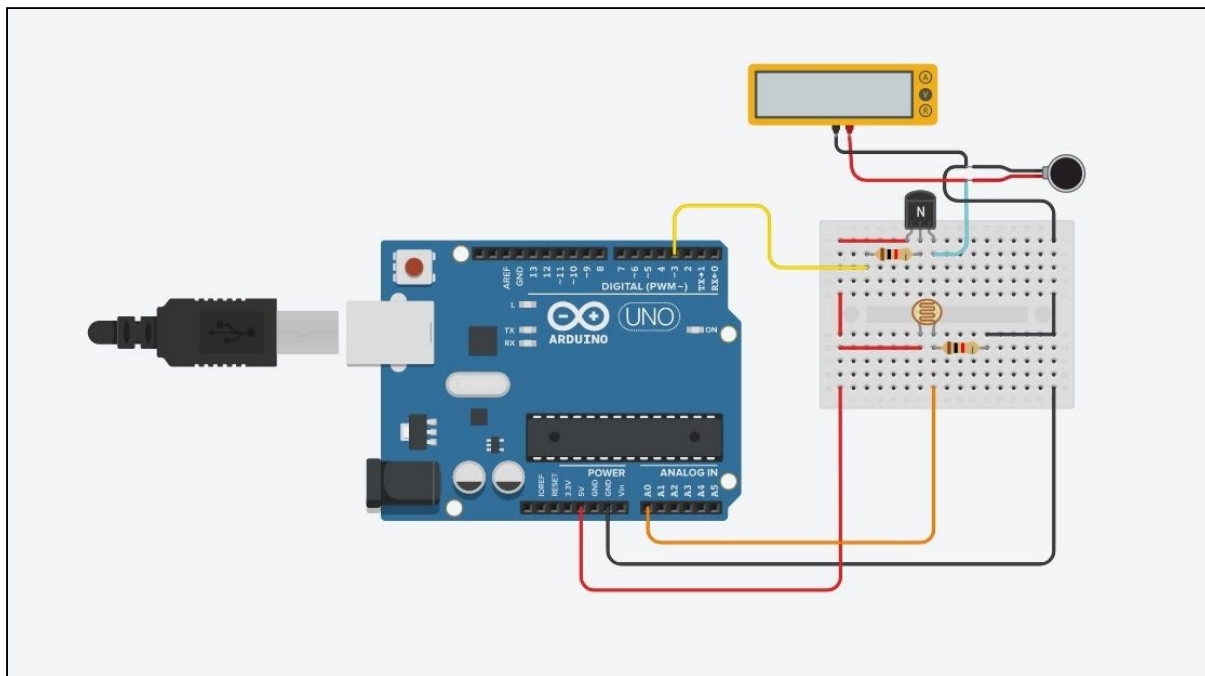
Source :

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

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

```
void loop()  
{  
    int value = analogRead(sensorPin);  
    Serial.println(value);  
    if(value > threshold)  
    {  
        digitalWrite(motorPin, HIGH);  
    }  
    else  
    {  
        digitalWrite(motorPin , LOW);  
    }  
}
```

Observation : Vibration motor works when LDR gives analog voltage.



## Write Up:

Source Code

```
int sensor Pin = A0;
```

```
int motor = 3;
```

```
int threshold = 400;
```

```
void setup() {
```

```
    Serial.begin(9600);
```

```
    pinMode(motor, OUTPUT);
```

```
}
```

```
void loop() {
```

```
    int value = analogRead(sensor);
```

```
    Serial.println(value);
```

```
    if (value > threshold)
```

```
    {  
        digitalWrite(motor, HIGH);
```

```
    }
```

```
    else
```

```
    {  
        digitalWrite(motor, LOW);
```

```
    }
```

```
    delay(500);
```

```
}
```