Vibration motor

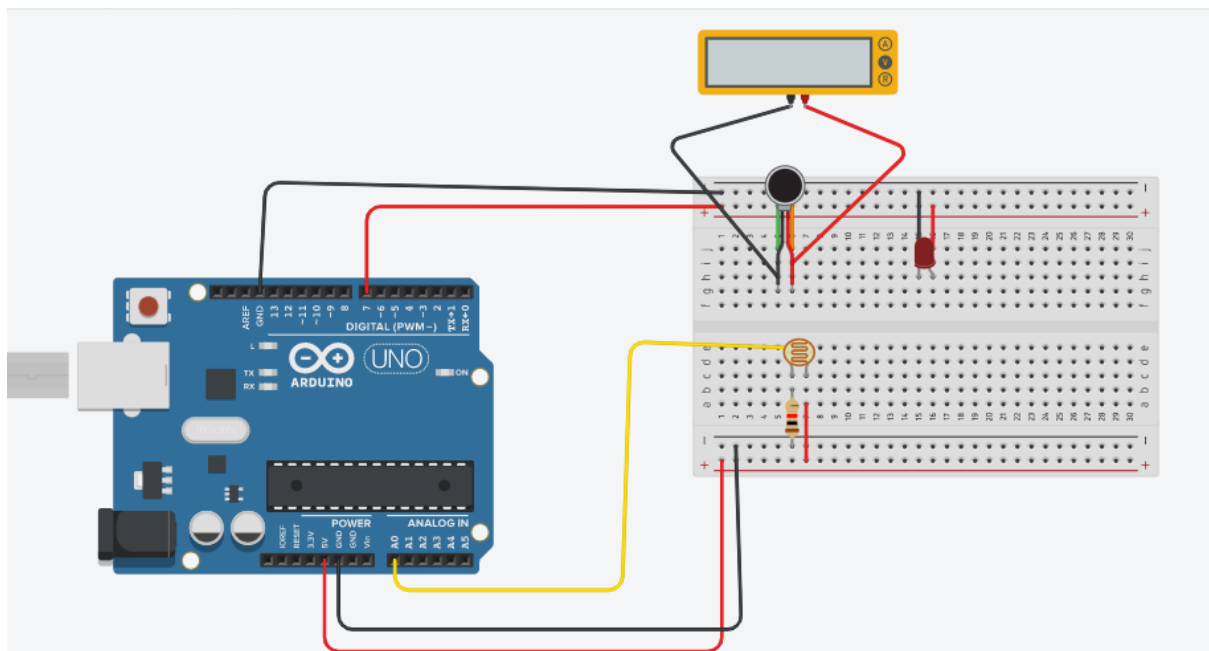## Harsha R

1BM18CS034

Aim : To generate vibrations if surroundings become dark.

Circuit Diagram

Handwritten Code

Vibration Motor

Harsha R
1BM18CS034
Harsha B

```c
int vib_pin = 7;
int ldr_pin = A0;
int threshold = 400;

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

void loop() {
  float brightness = analogRead(ldr_pin);
  if(brightness < threshold) {
    digitalWrite(vib_pin, HIGH);
    Serial.print("brightness:");
    Serial.print(brightness);
    Serial.println("Vibrate");
  } else {
    digitalWrite(vib_pin, LOW);
    Serial.print("brightness:");
    Serial.print(brightness);
    Serial.println("No vibration");
    delay(500);
  }
}
```

Code

```
int vib_pin = 7;
int ldr_pin = A0;
int threshold = 400;

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

void loop()
{
  float brightness = analogRead(ldr_pin);
  if(brightness<threshold){
      digitalWrite(vib_pin,HIGH);
  Serial.print("brightness: ");
  Serial.print(brightness);
  Serial.println("   Vibration");
 } else {
  digitalWrite(vib_pin,LOW);
      Serial.print("brightness: ");
  Serial.print(brightness);
  Serial.println("   No Vibration");
```

```
  }
  delay(1000);
}
```

Observation/Output:

Vibration occurs if surrounding area becomes dark.