

Shaan Subbaiah B C - 1BM18CS096

Program no – 12

Program Title – Daylight detection

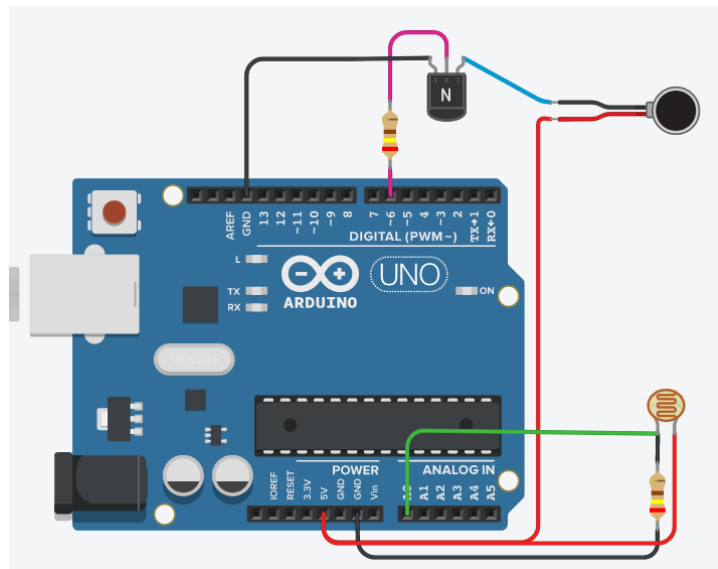
Aim

To turn on the vibration motor during the day / when a certain light threshold is met.

Hardware Required

- Arduino Board
- NPN transistor
- 2x 240 Ohm resistor
- Vibration motor
- LDR

Circuit Diagram



Code:

```
// Shaan Subbaiah - 1BM18CS096  
// Vibration on daylight
```

```

void setup()
{
  pinMode(6, OUTPUT);
  Serial.begin(9600);
}

void loop()
{
  int lightVal = analogRead(A0);

  Serial.println(lightVal);
  if(lightVal >= 200)
    analogWrite(6, 255);
  else
    analogWrite(6, 0);

  delay(300);
}

```

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```

void setup() {
  pinMode(6, OUTPUT);
}

void loop() {
  int lightVal = analogRead(A0);

  if (lightVal >= 200)
    analogWrite(6, 255);
  else
    analogWrite(6, 0);

  delay(1000);
}

```

Observation /Output

Vibration motor turns on during the day.