

BEEE LAB EVALUATION

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UID: 19BCG1077

SECTION: CSE (G&G)

SUB: BEEE LAB

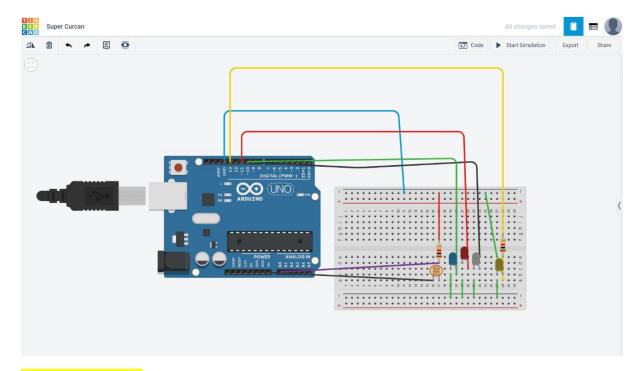
Circuit diagram

Evalutaion question

Design an automatic night lighting system such the system is only activated when the master control switch is pressed. a) Below 50% value of full brightness led blinks with a freq. of 500 msec. b) Above 50% value of full brightness led blinks with a freq. of 100 msec.



Setup images



Setup code

int value = 0;
void setup() {
 Serial.begin(9600);
 pinMode(10, OUTPUT);
 pinMode(11, OUTPUT);
 pinMode(12, OUTPUT);
 pinMode(13, OUTPUT);
 pinMode(A0, INPUT);

```
void loop() {
 value = analogRead(A0);
 if (value>129)
  digitalWrite(10, HIGH);
  digitalWrite(11, LOW);
  digitalWrite(12, LOW);
  digitalWrite(13, LOW);
  delay(100);
 else if (value < 128) {
  digitalWrite(10, HIGH);
  digitalWrite(11, HIGH);
```

```
digitalWrite(12, HIGH);
digitalWrite(13, HIGH);
delay(500);
}
```

Learning & Obersevation

'While experiment we oberseve the the led is blinking when programmed and if its brightness is less than 50%, it shows full brightness and above 50% it shows one led glows with full brightness.

problems & troubleshooting

the work has to be done properly as it is much sensitive .it needs proper attention.

Outcomes

If the brightness sense by the LDR is below 50% value of full brightness led glows.

and if the brightness sense by the LDR is above 50% value of full brightness only one led glows with full brightness.