MAKE SKILLED IoT INTERNSHIP

ASSIGNMENT – 11

ARDUINO LOGICAL THINKING TASK

**Automatic streetlight**

* HERE WE WILL BE USING ARDUINO INTERFACE.
  + COMPONENTS REQUIRED:
  1. ARDUINO UNO BOARD
  2. PC / LAPTOP INSTALLED WITH ARDUINO IDE SOFTWARE
  3. LDR SENSOR
  4. LED
  5. JUMPING WIRES
* CIRCUIT DIAGRAM

A picture containing graphical user interface

Description automatically generated

* PROGRAM

int pinLed1 = 2;

int pinLed2 = 3;

int pinLed3 = 4;

int pinLDR = 0;

int valorLDR = 0;

void setup()

{

pinMode(pinLed1, OUTPUT);

pinMode(pinLed2, OUTPUT);

pinMode(pinLed3, OUTPUT);

Serial.begin(9600);

}

void loop()

{

digitalWrite(pinLed1, LOW);

digitalWrite(pinLed2, LOW);

digitalWrite(pinLed3, LOW);

valorLDR= analogRead(pinLDR);

Serial.println(valorLDR);

if(valorLDR < 250)

{

digitalWrite(pinLed1, HIGH);

digitalWrite(pinLed2, HIGH);

digitalWrite(pinLed3, HIGH);

}

if (valorLDR > 250)

{

digitalWrite(pinLed1, LOW);

digitalWrite(pinLed2, LOW);

digitalWrite(pinLed3, LOW);

}

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