MAKE SKILLED IoT INTERNSHIP

ASSIGNMENT – 4

ARDUINO CONNECTIONS WITH POTENTIOMETER LED

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

Graphical user interface

Description automatically generated with medium confidence

* PROGRAM

int ledpin1 = 8;

int ledpin2 = 9;

int ledpin3 = 10;

int potentiometer = 0;

void setup(){

Serial.begin(9600);

pinMode(ledpin1, OUTPUT);

pinMode(ledpin2, OUTPUT);

pinMode(ledpin3, OUTPUT);

}

void loop(){

potentiometer = analogRead(A0);

if (potentiometer <=400) {

digitalWrite(ledpin1, HIGH);

digitalWrite(ledpin2, LOW);

digitalWrite(ledpin3,LOW);

}

else if (potentiometer<=800 && potentiometer >= 400) {

digitalWrite(ledpin1, LOW);

digitalWrite(ledpin2, HIGH);

digitalWrite(ledpin3,LOW);

}

else{

digitalWrite(ledpin1, LOW);

digitalWrite(ledpin2, LOW);

digitalWrite(ledpin3,HIGH);

}

Serial.println(potentiometer);

delay(500);

}

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