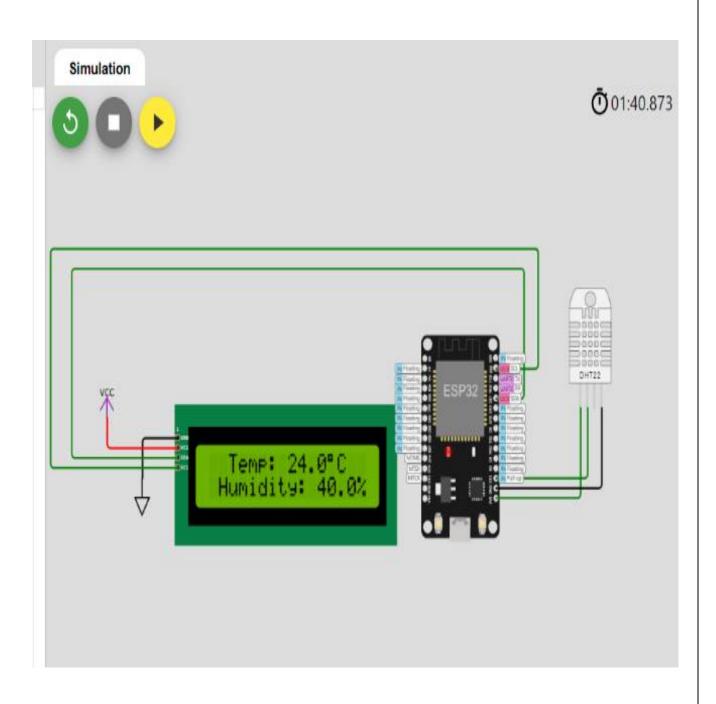
Environmental Monitoring using IOT:

INTERFACING DHT22 SENSOR WITH ESP32 IN WOKWI SIMULATOR

INTERFACING DIAGRAM:



CODE:

```
#include "DHTesp.h"
#include <LiquidCrystal_I2C.h>
#define I2C ADDR 0x27
#define LCD_COLUMNS 16
#define LCD_LINES 2
const int DHT_PIN = 15;
DHTesp dhtSensor;
LiquidCrystal_I2C lcd(I2C_ADDR, LCD_COLUMNS, LCD_LINES);
void setup() {
 Serial.begin(115200);
 dhtSensor.setup(DHT_PIN, DHTesp::DHT22);
 lcd.init();
 lcd.backlight();
}
void loop() {
 TempAndHumidity data = dhtSensor.getTempAndHumidity();
 Serial.println("Temp: " + String(data.temperature, 1) + "°C");
 Serial.println("Humidity: " + String(data.humidity, 1) + "%");
 Serial.println("---");
 lcd.setCursor(0, 0);
 lcd.print(" Temp: " + String(data.temperature, 1) + "\xDF"+"C ");
 lcd.setCursor(0, 1);
 lcd.print(" Humidity: " + String(data.humidity, 1) + "% ");
 lcd.print("Wokwi Online IoT");
 delay(1000);
```

OUTPUT:



SIMULATION LINK:

https://wokwi.com/projects/378936628540765185