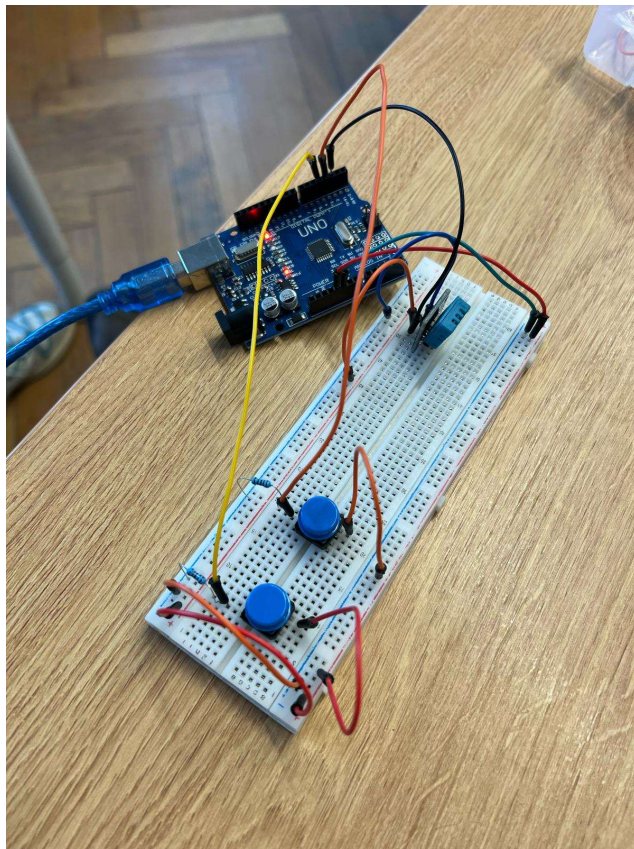


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Aplicatia 1: DHT



Codul:

```
#include <Adafruit_Sensor.h>
```

```
#include <DHT.h>
```

```
#define DHTPIN 2
```

```
#define DHTTYPE DHT11
```

```
#define BUTTON_CELSIUS 3
```

```
#define BUTTON_FAHRENHEIT 4
```

```
DHT dht(DHTPIN, DHTTYPE);
```

```
bool showTemperature = false;
```

```
bool isCelsius = true;
```

```
void setup() {
```

```
    Serial.begin(9600);
```

```
    pinMode(BUTTON_CELSIUS, INPUT_PULLUP);
```

```
    pinMode(BUTTON_FAHRENHEIT, INPUT_PULLUP);
```

```
    dht.begin();
```

```
}
```

```
void loop() {
```

```
    if (digitalRead(BUTTON_CELSIUS) == LOW) {
```

```
        isCelsius = true;
```

```
        showTemperature = true;
```

```
        Serial.println("Mod: Celsius");
```

```
        delay(300);
```

```
    }
```

```
    if (digitalRead(BUTTON_FAHRENHEIT) == LOW) {
```

```
        isCelsius = false;
```

```
        showTemperature = true;
```

```
        Serial.println("Mod: Fahrenheit");
```

```
        delay(300);
```

```
    }
```

```
    if (showTemperature) {
```

```
float tempC = dht.readTemperature();

if (isnan(tempC)) {
    Serial.println("Eroare: Nu se poate citi temperatura!");
    return;
}

if (isCelsius) {
    Serial.print("Temperatura: ");
    Serial.print(tempC);
    Serial.println(" °C");
} else {
    float tempF = tempC * 9.0 / 5.0 + 32.0;
    Serial.print("Temperatura: ");
    Serial.print(tempF);
    Serial.println(" °F");
}

delay(1000);
}
```

LINK catre video: <https://www.youtube.com/@silih1141>