Name: Shabbir Ezzy

Roll no.10

Batch: S1

---------- PRACTICAL NO.10 ----------

AIM Write a program read the temperature sensor and send the values to the serial monitor on the computer.

---------- CODE ----------

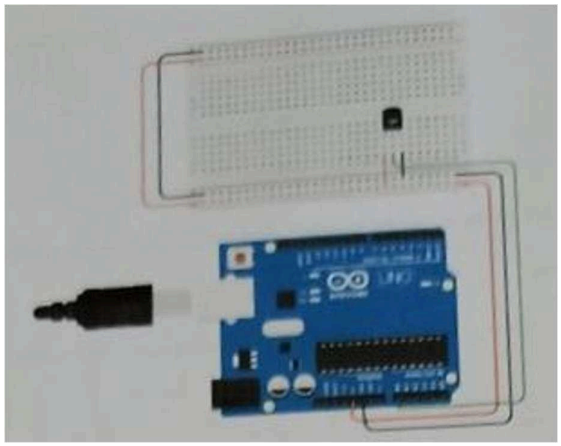
```
#include <dht11.h>

#define DHTIIPINN AΘ

void setup ()

{

Serial begin(9600),

}

void loop()

{

Serial.println();

int chk = DHT11.read(DHT11PIN); float

h= DHT11.humidity;

float t= DHT11.temperature;

Serial.print("Humidity (%): ");

Serial.println(h);

Serial.print("Temperature (C): ");

Serial.println(t);

delay(2000);

}
```

---------- OUTPUT ----------

STEPS:

1. Set up your hardware:

- Connect the temperature sensor (e.g., LM35) to the Arduino board.
- Connect its VCC pin to 5V, GND pin to GND, and the output pin to an analog input pin (e.g., A0) on the Arduino
- Connect your Arduino board to your computer using a USB cable.



2. Open the Arduino IDE on your computer.

3. Create a new sketch by selecting "File" > "New".

4. Write the program code inside the Arduino IDE:

5. Verify and upload the code to your Arduino board by selecting "Sketch" > "Upload"

6. Open the serial monitor in the Arduino IDE by selecting "Tools" > "Serial Monitor or by pressing Ctrl+Shift+M. Make sure the baud rate in the serial monitor matches the one set in the code (9600 baud).

7. The program will now read the temperature sensor values and send them to the serial monitor. You will see the temperature reading displayed in degree Celsius.