

## IOT WITH AI PRACTICAL NO 4

SOURCE CODE:

```
#include <DHT11.h>

DHT11 dht11(2);

void setup() {

    Serial.begin(9600);

}

void loop() {

    int temperature = dht11.readTemperature();
    if (temperature != DHT11::ERROR_CHECKSUM && temperature !=
DHT11::ERROR_TIMEOUT) {
        Serial.print("Temperature: ");
        Serial.print(temperature);
        Serial.println(" °C");
    } else {
        Serial.println(DHT11::getErrorString(temperature));
    }
}
```

OUTPUT:

The image shows the Arduino IDE interface. At the top, the menu bar includes File, Edit, Sketch, Tools, and Help. Below the menu bar, the toolbar contains icons for saving, undo, redo, and other standard IDE functions. The main workspace displays a C++ program named 'ReadTemperature.ino'. The code includes the DHT11 library, defines a DHT11 sensor object, and implements a setup function to initialize the serial port at 9600 baud and a loop function to read and print the temperature. The Serial Monitor window is open at the bottom, showing the output 'Temperature: 29 °C' repeated multiple times. The status bar at the bottom right indicates the current line and column (Ln 18, Col 13) and the target board (Arduino Uno on COM3). An 'Activate Windows' watermark is visible in the bottom right corner.