Node MCU ESP 8266 ARDUINO CODE

#include <ESP8266WiFi.h>

#include <ESP8266HTTPClient.h>

// Replace with WiFi credentials

const char \*ssid = "SSID";

const char \*password = "PASSWORD";

// Replace with your server details

const char \*serverUrl = "http://your server.com";

void setup() {

Serial.begin(9600);

delay(10);

// Connect to WiFi

WiFi.begin(ssid, password);

while (WiFi.status() != WL\_CONNECTED) {

delay(1000);

Serial.println("Connecting to WiFi...");

}

Serial.println("Connected to WiFi");

}

void loop() {

// Check if data is available on the serial port

if (Serial.available() > 0) {

// Read the data until a newline character is encountered

String data = Serial.readStringUntil('\n');

// Remove leading and trailing whitespaces

data.trim();

// Send data to the server

sendToServer(data);

}

// Add other code or delays here if needed

}

void sendToServer(String data) {

if (WiFi.status() == WL\_CONNECTED) {

HTTPClient http;

// Construct the full URL with data

String url = serverUrl + data;

// Begin HTTP request

http.begin(url);

// Send the request and get the response

int httpCode = http.GET();

// Check for a successful request

if (httpCode > 0) {

Serial.printf("HTTP Code: %d\n", httpCode);

String payload = http.getString();

Serial.println(payload);

} else {

Serial.printf("HTTP Error: %s\n", http.errorToString(httpCode).c\_str());

}

// End the request

http.end();

}

}