**ARDUINO CODE**

#include <Arduino.h>

#include <WiFi.h>

#include <AWS\_IOT.h>

// WiFi credentials

const char\* ssid = "your\_wifi\_ssid";

const char\* password = "your\_wifi\_password";

// AWS IoT Core credentials

const char\* awsEndpoint = "your\_aws\_iot\_endpoint";

const char\* thingName = "your\_thing\_name";

const char\* privateKey = "your\_private\_key";

const char\* certificate = "your\_certificate";

const char\* rootCA = "your\_root\_ca";

// MQTT topics

const char\* topic = "your\_topic";

// WiFi client

WiFiClient wifiClient;

// AWS IoT client

AWS\_IOT awsIoT(wifiClient, awsEndpoint, 8883, thingName, privateKey, certificate, rootCA);

void setup() {

Serial.begin(115200);

delay(100);

// Connect to WiFi

WiFi.begin(ssid, password);

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

delay(500);

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

}

Serial.println("Connected to WiFi");

// Connect to AWS IoT Core

if (!awsIoT.connect()) {

Serial.println("Failed to connect to AWS IoT Core");

while (1);

}

Serial.println("Connected to AWS IoT Core");

}

void loop() {

// Sample weight data (replace with actual sensor readings)

int weight = random(100, 200); // Replace with your actual weight sensor reading

// Create JSON payload

String payload = "{\"weight\": " + String(weight) + "}";

// Publish weight data to MQTT topic

if (awsIoT.publish(topic, payload)) {

Serial.println("Published data to AWS IoT Core: " + payload);

} else {

Serial.println("Failed to publish data to AWS IoT Core");

}

// Wait before publishing next data

delay(5000); // Publish data every 5 seconds (adjust as needed)

}