```cpp
void connectMQTT() {
  Serial.print("Connecting MQTT...");
  while (!mqtt.connect(clientId, username, password)) {
    Serial.print(".");
    delay(500);
  }

  Serial.println("connected.");
}
```

```cpp
void loop() {
  mqtt.loop();

  if (!mqtt.connected()) {
    connectMQTT();
  }

  if (millis() - lastMillis > publishInterval) {
    lastMillis = millis();

    float temperature = dht.readTemperature(true);
    float humidity = dht.readHumidity();

    mqtt.publish(temperatureTopic, String(temperature));
    mqtt.publish(humidityTopic, String(humidity));
  }
}
```