```
main.java.com.wfdai.weatherforecastdai.main.GestorErros;
                                                                import
org.eclipse.paho.client.mqttv3.IMqttDeliveryToken; import org.eclipse.paho.client.mqttv3.MqttCallback;
import org.eclipse.paho.client.mqttv3.MqttClient; import org.eclipse.paho.client.mqttv3.MqttException;
import\ org.eclipse.paho.client.mqttv3.MqttMessage;
/** * Recebe KPI's do broker @author daniel */ public class KPI implements
MqttCallback {
private String uptime, totalClients, activeClients, messages, subscriptions, receivedLoad5,
MqttClient client;
GestorErros erros = new GestorErros();
public KPI() {
}
/**
 * Recebe KPI's do Broker
 * @throws java.lang.InterruptedException
public void getKPI() throws InterruptedException {
    try {
        client = new MqttClient("tcp://127.0.0.1:9001", "javaServer");
        client.connect();
        client.setCallback(this);
        client.subscribe("$SYS/broker/#");
        Thread.sleep(9 * 1000);
        client.disconnect();
    } catch (MqttException e) {
        erros.putErro("GetKPI MQTT exception: " + e.getCause().toString());
    }
}
@Override
public void connectionLost(Throwable cause) {
    // TODO Auto-generated method stub
}
@Override
```

package main.java.com.wfdai.weatherforecastdai.main.KPI;

public void messageArrived(String topic, MqttMessage message)

throws Exception {

```
this.setKPI(message.toString(), topic);
}
@Override
public void deliveryComplete(IMqttDeliveryToken token) {
    // TODO Auto-generated method stub
}
 * Atribui KPI's a atributos do objeto do tipo KPI
 * @param message Mensagem recebida do broker
 * @param topic Topico da mensagem do broker
 */
public void setKPI(String message, String topic) {
    switch (topic) {
        case "$SYS/broker/uptime":
            this.setUptime(message);
            break;
        case "$SYS/broker/clients/total":
            this.setTotalClients(message);
            break;
        case "$SYS/broker/clients/active":
            this.setActiveClients(message);
            break;
        case "$SYS/broker/messages/stored":
            this.setMessages(message);
        case "$SYS/broker/subscriptions/count":
            this.setSubscriptions(message);
        case "$SYS/broker/load/messages/received/5min":
            this.setReceivedLoad5(message);
            break;
        case "$SYS/broker/load/messages/received/15min":
            this.setReceivedLoad15(message);
        case "$SYS/broker/load/bytes/sent/15min":
            this.setBytesSent15(message);
            break;
        default:
            break;
    }
}
```

```
public String getUptime() {
    return uptime;
public void setUptime(String uptime) {
    this.uptime = uptime;
public String getTotalClients() {
   return totalClients;
public void setTotalClients(String totalClients) {
    this.totalClients = totalClients;
public String getActiveClients() {
   return activeClients;
public void setActiveClients(String activeClients) {
    this.activeClients = activeClients;
public String getMessages() {
   return messages;
public void setMessages(String messages) {
    this.messages = messages;
public String getSubscriptions() {
   return subscriptions;
}
public void setSubscriptions(String subscriptions) {
    this.subscriptions = subscriptions;
}
public String getReceivedLoad5() {
   return receivedLoad5;
}
public void setReceivedLoad5(String receivedLoad5) {
```

```
this.receivedLoad5 = receivedLoad5;
}

public String getReceivedLoad15() {
    return receivedLoad15;
}

public void setReceivedLoad15(String receivedLoad15) {
    this.receivedLoad15 = receivedLoad15;
}

public String getBytesSent15() {
    return bytesSent15;
}

public void setBytesSent15(String bytesSent15) {
    this.bytesSent15 = bytesSent15;
}
```