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43139 BE-9 R9 CL-9

**Assignment 6**

Publish-Subscribe System: Implement a topic based Public Subscribe System for Updated Cricket Score for IPL Match.

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**// Publisher.java**

package pubsub;

import javax.jms.\*;

import org.apache.activemq.ActiveMQConnection;

import org.apache.activemq.ActiveMQConnectionFactory;

public class Publisher {

private static String url = ActiveMQConnection.DEFAULT\_BROKER\_URL;

public static void main(String[] args) throws JMSException {

ConnectionFactory connectionFactory2 = new ActiveMQConnectionFactory(url);

Connection connection2 = connectionFactory2.createConnection();

connection2.start();

// JMS messages are sent and received using a Session. We will

// create here a non-transactional session object. If you want

// to use transactions you should set the first parameter to 'true'

Session session2 = connection2.createSession(false, Session.AUTO\_ACKNOWLEDGE);

Topic topic2 = session2.createTopic("IOT\_Lab");

MessageProducer producer2 = session2.createProducer(topic2);

// We will send a small text message saying 'Hello'

TextMessage message = session2.createTextMessage();

message.setText("This is a Message for Topic IOT\_Lab");

// Here we are sending the message!

producer2.send(message);

System.out.println("Sent message '" + message.getText() + "'");

connection2.close();

}

}

**// Subscriber.java**

package pubsub;

import java.io.IOException;

import javax.jms.\*;

import org.apache.activemq.ActiveMQConnection;

import org.apache.activemq.ActiveMQConnectionFactory;

public class Subscriber {

// URL of the JMS server

private static String url = ActiveMQConnection.DEFAULT\_BROKER\_URL;

// Name of the topic from which we will receive messages from = " CL9"

public static void main(String[] args) throws JMSException {

// Getting JMS connection from the server

ConnectionFactory connectionFactory1 = new ActiveMQConnectionFactory(url);

Connection connection1 = connectionFactory1.createConnection();

connection1.start();

Session session1 = connection1.createSession(false, Session.AUTO\_ACKNOWLEDGE);

Topic topic1 = session1.createTopic("CL10");

MessageConsumer consumer1 = session1.createConsumer(topic1);

Topic topic = session1.createTopic("CL9");

MessageConsumer consumer = session1.createConsumer(topic);

MessageListener listner1 = new MessageListener() {

public void onMessage(Message message1) {

try {

if (message1 instanceof TextMessage) {

TextMessage textMessage1 = (TextMessage) message1;

System.out.println("Received message" + textMessage1.getText() + "'");

}

} catch (JMSException e) {

System.out.println("Caught:" + e);

e.printStackTrace();

}

}

};

consumer1.setMessageListener(listner1);

consumer.setMessageListener(listner1);

try {

System.in.read();

} catch (IOException e) {

e.printStackTrace();

}

connection1.close();

}

}