

## Experiment No: 4

```
import javax.jms.*;

import org.apache.activemq.ActiveMQConnectionFactory;

class Sender implements Runnable {

    public void run() {

        ConnectionFactory connectionFactory = new
ActiveMQConnectionFactory("tcp://localhost:61616");

        try {

            Connection connection = connectionFactory.createConnection();

            connection.start();

            Session session = connection.createSession(false, Session.AUTO_ACKNOWLEDGE);

            Topic topic = session.createTopic("MyTopic");

            MessageProducer producer = session.createProducer(topic);

            TextMessage message = session.createTextMessage("Hello, Subscribers!");

            producer.send(message);

            System.out.println("Message sent: " + message.getText());

            producer.close();

            session.close();

            connection.close();

        } catch (JMSEException e) {

            e.printStackTrace();

        }

    }

}
```

```

class Subscriber implements Runnable {

    public void run() {

        ConnectionFactory connectionFactory = new
        ActiveMQConnectionFactory("tcp://localhost:61616");

        try {

            Connection connection = connectionFactory.createConnection();

            connection.start();

            Session session = connection.createSession(false, Session.AUTO_ACKNOWLEDGE);

            Topic topic = session.createTopic("MyTopic");

            MessageConsumer consumer = session.createConsumer(topic);

            consumer.setMessageListener(new MessageListener() {

                @Override

                public void onMessage(Message message) {

                    if (message instanceof TextMessage) {

                        TextMessage textMessage = (TextMessage) message;

                        try {

                            System.out.println("Received message: " + textMessage.getText());

                        } catch (JMSException e) {

                            e.printStackTrace();

                        }

                    }

                }

            });

            System.out.println("Waiting for messages...");

            Thread.sleep(10000);

            consumer.close();

            session.close();

            connection.close();

        } catch (JMSException | InterruptedException e) {

```

```

        e.printStackTrace();
    }
}

public class Main {
    public static void main(String[] args) {
        Runnable sender = new Sender();
        Runnable subscriber = new Subscriber();
        Thread t1 = new Thread(sender);
        Thread t2 = new Thread(subscriber);

        t1.start();
        t2.start();
        try {
            t1.join();
            t2.join();
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}

```

Output:

Message sent: Hello, Subscribers!

Waiting for messages...

Received message: Hello, Subscribers!