

```
2 * To change this license header, choose License Headers in Project Properties.
6 package it.uniroma1.msecs.ay2019.e3;
7
8 import javax.jms.*;
14
15 /**
16 *
17 * @author biar
18 */
19 public class FlightProducer {
20     private Random randomGen = new Random();
21     private static final String uppercaseCharacters = "QWERTYUIOPASDFGHJKLZXCVBNM";
22
23
24     private String getFlight() {
25         return String.format("%c%c%03d", // 2 characters + 3 digits
26             uppercaseCharacters.charAt(randomGen.nextInt(uppercaseCharacters.length())),
27             uppercaseCharacters.charAt(randomGen.nextInt(uppercaseCharacters.length())),
28             randomGen.nextInt(1000));
29     }
30
31
32     public void start() throws NamingException, JMSException {
33         Properties properties = null;
34         Context jndiContext = null;
35
36         try {
37             properties = new Properties();
38             properties.setProperty(Context.INITIAL_CONTEXT_FACTORY,
39 "org.apache.activemq.jndi.ActiveMQInitialContextFactory");
40             properties.setProperty(Context.PROVIDER_URL, "tcp://localhost:61616");
41             jndiContext = new InitialContext(properties);
42         } catch (NamingException e) {
43             System.out.println(e.toString());
44             System.exit(1);
45         }
46
47         ConnectionFactory connectionFactory = (ConnectionFactory)jndiContext.lookup
48 ("ConnectionFactory");
49         Destination destination = (Destination)jndiContext.lookup("dynamicTopics/Flights");
50
51         Connection connection = connectionFactory.createConnection();
52         Session session = connection.createSession(false, Session.AUTO_ACKNOWLEDGE);
53         MessageProducer producer = session.createProducer(destination);
54
55         int item = 0;
56         String flight;
57         String text;
58         TextMessage message = session.createTextMessage();
59         while (true) {
60             flight = getFlight();
61
62             message.setStringProperty("flight", flight);
63             text = String.format("Item %d >> flight %s has landed : %b", item, flight,
64 randomGen.nextBoolean());
65             message.setText(text);
66
67             producer.send(message);
68             System.out.println(text);
69             item += 1;
70
71         }
72     }
73 }
```

```
69         Thread.sleep(1000);
70     } catch (Exception ex) {
71         ex.printStackTrace();
72     }
73 }
74 }
75 }
76 }
```