## **ASSIGNMENT - 6**

```
CL-9
BE-9 P9
Roll No. 43104
//Code
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, InterruptedException(
     ConnectionFactory conFact = new ActiveMQConnectionFactory(url);
     Connection con = conFact.createConnection();
     con.start();
     Session session = con.createSession(false, Session.AUTO ACKNOWLEDGE);
     Topic topic = session.createTopic("PubSubMessage");
     MessageProducer producer = session.createProducer(topic);
     TextMessage message = session.createTextMessage();
     int runs = 0, wickets = 0;
    for(int i = 0; i < 120; i++) {
         Thread.sleep(5000);
         if(wickets == 10) break;
         int[] score= \{1,2,3,4,6,-1,0\};
         int index = (int)(Math.random()*6);
         int ball = score[index];
         if(ball == -1)
         {
                  wickets++;
         else
         {
                  runs+=ball;
         message.setText(runs+"/"+wickets);
              producer.send(message);
              System.out.println("Match score: " + message.getText());
```

```
}
    con.close();
  }
}
Subscriber.java
package pubsub;
import javax.jms.*;
import org.apache.activemq.ActiveMQConnection;
import org.apache.activemq.ActiveMQConnectionFactory;
public class Subscriber {
  private static String url = ActiveMQConnection.DEFAULT BROKER URL;
  public static void main(String args[]) throws JMSException, InterruptedException{
     ConnectionFactory conFact = new ActiveMQConnectionFactory(url);
     Connection con = conFact.createConnection();
     con.start();
     Session session = con.createSession(false, Session.AUTO ACKNOWLEDGE);
    Topic topic = session.createTopic("PubSubMessage");
    MessageConsumer consumer = session.createConsumer(topic);
    for(int i = 0; i < 120; i++) {
                    MessageListener listener = new MessageListener(){
                       public void onMessage(Message message){
                           if(message instanceof TextMessage){
                              TextMessage textMessage = (TextMessage) message;
                              System.out.println("Score Recieved:
"+textMessage.getText());
                           }else{
                              System.out.println("No Message Recieved: ");
                         }catch(Exception e){
                           System.out.println("Exception in subscriber: "+e.toString());
                      }
                    };
                    consumer.setMessageListener(listener);
                    Thread.sleep(5000);
    con.close();
  }
}
```

## **OUTPUT-**

## Subscriber:



## **Publisher:**

