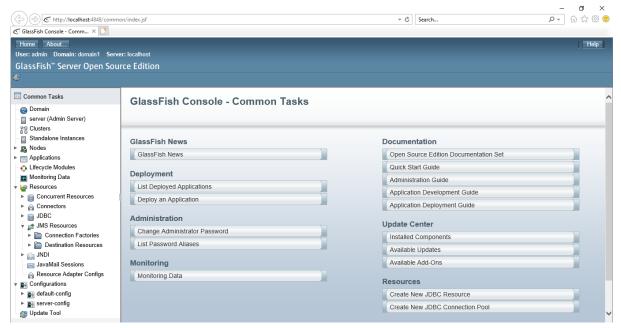
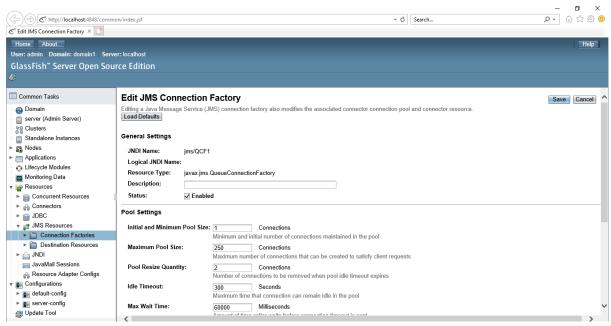
Practical No.: 6B

Aim: Write a Program on Message Bean Demonstration.

- → Start Glasfish Server under Services Tab
 - Right click on GlasFish Server 4.1.1
 - Click on Start
- → Creating Queue and Destination
 - Right click on GlasFish Server 4.1.1
 - Click on View Domain Admin Console

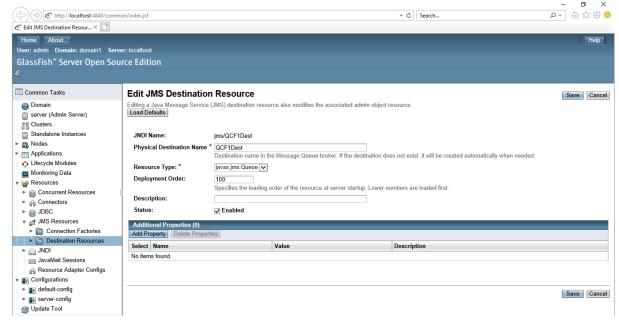


Click on JMS Resouces → Connection Factories → New



Click on OK

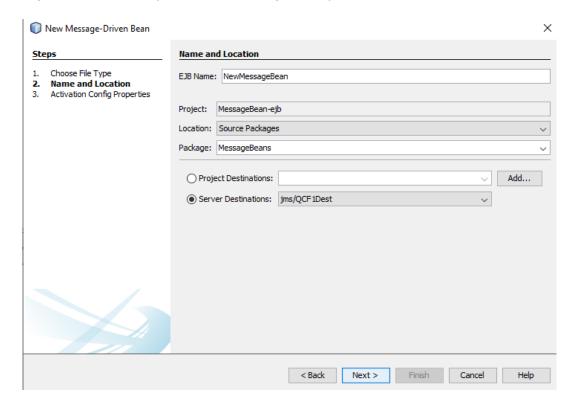
Click on JMS Resources → *Destination Factories* → *New*



Click on OK

Under Netbeans \rightarrow *New Project* \rightarrow *Java EE* \rightarrow *Enterprise Application* \rightarrow *Project Name* (<u>Message</u> <u>Bean)</u>

Right click on EJB Project Module (MessageBean-ejb) → <u>Message Driven Bean</u> → Finish



NewMessageBean.java

```
package MessageBeans;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.ejb.ActivationConfigProperty;
import javax.ejb.MessageDriven;
import javax.jms.JMSException;
import javax.jms.Message;
import javax.jms.MessageListener;
import javax.jms.TextMessage;
/**
* @author TechnoBoy
@MessageDriven(activationConfig = {
  @ActivationConfigProperty(propertyName = "destinationLookup", propertyValue =
"jms/QCF1Dest"),
  @ActivationConfigProperty(propertyName = "destinationType", propertyValue =
"javax.jms.Queue")
public class NewMessageBean implements MessageListener {
  public NewMessageBean() {
  @Override
  public void onMessage(Message message) {
    try {
       TextMessage msg=(TextMessage) message;
       System.out.println("Welcome to Message Bean, "+msg.getText());
     } catch (JMSException ex) {
       Logger.getLogger(NewMessageBean.class.getName()).log(Level.SEVERE, null, ex);
     }
  }
Right click on Web Project (MessageBean-war) \rightarrow New \rightarrow Servlet \rightarrow Class Name: showMsg
New Servlet
  Choose File Type
Name and Location
  Configure Servlet Deployment
                  Project:
                        MessageBean-war
```

< Back Next > Finish Cancel Help

showMsg.java

```
package MessageBeans;
import java.io.IOException;
import java.io.PrintWriter;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.annotation.Resource;
import javax.inject.Inject;
import javax.jms.Connection;
import javax.jms.ConnectionFactory;
import javax.jms.JMSConnectionFactory;
import javax.jms.JMSContext;
import javax.jms.JMSException;
import javax.jms.MessageProducer;
import javax.jms.Queue;
import javax.jms.Session;
import javax.jms.TextMessage;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
/**
* @author TechnoBoy
public class showMsg extends HttpServlet {
  @Resource(mappedName = "jms/QCF1Dest")
  private Queue qCF1Dest;
  @Resource(mappedName = "jms/QCF1")
  private ConnectionFactory queue;
  protected void processRequest(HttpServletRequest request, HttpServletResponse response)
       throws ServletException, IOException {
    response.setContentType("text/html;charset=UTF-8");
    try (PrintWriter out = response.getWriter()) {
       /* TODO output your page here. You may use following sample code. */
       out.println("<!DOCTYPE html>");
       out.println("<html>");
       out.println("<head>");
       out.println("<title>Servlet showMsg</title>");
       out.println("</head>");
       out.println("<body>");
       String messageData=request.getParameter("name");
       sendJMSMessageToQCF1Dest(messageData);
       out.println("<h1>Name is Queued</h1>");
       out.println("</body>");
       out.println("</html>");
  }
```

```
private void sendJMSMessageToQCF1Dest(String messageData) {
    try {
       Connection con=queue.createConnection();
       Session s = con.createSession():
       MessageProducer mp=s.createProducer(qCF1Dest);
       TextMessage tm=s.createTextMessage();
       tm.setText(messageData);
       mp.send(tm);
     } catch (JMSException ex) {
      Logger.getLogger(showMsg.class.getName()).log(Level.SEVERE, null, ex);\\
  }
}
MessageBean-war \rightarrow New \rightarrow JSP \rightarrowFile Name(\underline{newjsp.jsp})
newjsp.jsp
<%--
  Document : newjsp
  Created on: 20 Oct, 2019, 8:05:26 PM
  Author : TechnoBoy
--%>
< @ page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>Message Bean</title>
  </head>
  <body>
    <form action="showMsg">
       <input type="text" name="name">
       <input type="submit" value="send">
    </form>
  </body>
</html>
```

Output:

Deploy MessageBean-ejb Run MessageBean-war → newjsp.jsp

