**package** com.packt.cookbook;  
  
**import** com.icegreen.greenmail.user.GreenMailUser;  
**import** com.icegreen.greenmail.user.UserException;  
**import** com.icegreen.greenmail.util.GreenMail;  
**import** com.icegreen.greenmail.util.ServerSetupTest;  
**import** junit.framework.Test;  
**import** junit.framework.TestCase;  
**import** junit.framework.TestSuite;  
**import** org.junit.After;  
**import** org.junit.Before;  
  
**import** javax.mail.\*;  
**import** javax.mail.internet.InternetAddress;  
**import** javax.mail.internet.MimeMessage;  
**import** java.io.IOException;  
**import** java.util.Properties;  
  
**import static** org.hamcrest.core.IsEqual.*equalTo*;  
**import static** org.junit.Assert.*assertEquals*;  
**import static** org.junit.Assert.*assertThat*;  
**import static** org.junit.Assert.*assertTrue*;  
  
*/\*\*  
 \* Unit test for simple App.  
 \*/***public class** AppTest   
 **extends** TestCase  
{  
 */\*\*  
 \* Create the test case  
 \*  
 \** ***@param testName*** *name of the test case  
 \*/* **public** AppTest( String testName )  
 {  
 **super**( testName );  
 }  
  
 */\*\*  
 \** ***@return*** *the suite of tests being tested  
 \*/* **public static** Test suite()  
 {  
 **return new** TestSuite( AppTest.**class** );  
 }  
  
 */\*\*  
 \* Rigourous Test :-)  
 \*/* **public void** testApp()  
 {  
 *assertTrue*( **true** );  
 }  
  
 **private static final** String ***USER\_PASSWORD*** = **"ajdan"**;  
 **private static final** String ***USER\_NAME*** = **"nadja"**;  
 **private static final** String ***EMAIL\_USER\_ADDRESS*** = **"nadja@localhost"**;  
 **private static final** String ***EMAIL\_TO*** = **"benny@local.com"**;  
 **private static final** String ***EMAIL\_SUBJECT*** = **"Test E-Mail"**;  
 **private static final** String ***EMAIL\_TEXT*** = **"Hallo, ich bin eine Test E-Mail!"**;  
 **private static final** String ***LOCALHOST*** = **"127.0.0.1"**;  
 **private** GreenMail **mailServer**;  
  
  
 @Before  
 **public void** setUp() {  
 **mailServer** = **new** GreenMail(ServerSetupTest.***POP3***);  
 **mailServer**.start();  
 }  
  
 @After  
 **public void** tearDown(){  
 **mailServer**.stop();  
 }  
  
 @org.junit.Test  
 **public void** getMails() **throws** IOException, MessagingException, UserException, InterruptedException{  
  
 GreenMailUser user = **mailServer**.setUser(***EMAIL\_USER\_ADDRESS***, ***USER\_NAME***, ***USER\_PASSWORD***);  
  
 MimeMessage message = **new** MimeMessage((Session) **null**);  
 message.setFrom(**new** InternetAddress(***EMAIL\_TO***));  
 message.addRecipient(Message.RecipientType.***TO***, **new** InternetAddress(***EMAIL\_USER\_ADDRESS***));  
 message.setSubject(***EMAIL\_SUBJECT***);  
 message.setText(***EMAIL\_TEXT***);  
  
 user.deliver(message);  
  
 Properties properties = **new** Properties();  
 Session session = Session.*getInstance*(properties);  
 URLName urlName = **new** URLName(**"imap"**, ***LOCALHOST***, ServerSetupTest.***IMAP***.getPort(), **null**, user.getLogin(), user.getPassword());  
 Store store = session.getStore(urlName);  
 store.connect();  
  
 Folder folder = store.getFolder(**"INBOX"**);  
 folder.open(Folder.***READ\_ONLY***);  
 Message[] messages = folder.getMessages();  
 *assertNotNull*(messages);  
 *assertThat*(1, *equalTo*(messages.**length**));  
 *assertEquals*(***EMAIL\_SUBJECT***, messages[0].getSubject());  
 *assertTrue*(String.*valueOf*(messages[0].getContent()).contains(***EMAIL\_TEXT***));  
 *assertEquals*(***EMAIL\_TO***, messages[1].getFrom()[0].toString());  
  
 }  
}