**PartA**

-How did I begin to lay out this assignment, considering the requirements? Where should I begin? It will help if you start a discussion in the [COMP 348 Group on the Landing](https://landing.athabascau.ca/groups/profile/398939/comp-348/tab/398940/default) to see what others in the class have done or are doing. Do not be afraid to ask questions on the Landing.

**If the assignment is to send email, then it must need external jar package to import the package to implement the function**

**I need to parse the file to get the imformation that I need to do, such as**

**Server: email server  
User: email account (also used as the From: in the email)  
Password: email account password  
To: primary recipient  
CC: comma separated list of secondary recipients  
BCC: comma separated list of tertiary recipients  
Subject: Email subject  
Body: multiple lies of text representing the body of the email**

* **What are some general research questions I should use as my overall search terms to find out information on the topic? Again, discussions on the Landing can be a great benefit.**

**What are jar package I need to find for ending email.**

**Which service I need to use?**

**What format should the property should look like?**

* Where should I look for information? Here is a good place to note every source you use, both good and bad. Start with Google or other search engine, and begin following the top links. You should also check out the Oracle sun tutorials and articles, places like Stack Overflow, and other programmer's blogs. Record what you find and where you find it.

**I can search on the google to see how other people code the program to send email. I used the Stack Overflow and YouTube video to design my program.**

* How can I use the research information to begin to design and develop my programs for part C? You can discuss your designs and assumptions on the Landing. Document your conversations in your notebook.

**I can download the jar package and import to my program to implement the program that I need to do.**

* What is the purpose for each program in part C? What design would suit that purpose? Are there existing examples that I could adapt to help solve the problem? Document your findings.

**The purpose of part C is to parse a simple file to get the necessary information to send a simple.**

* When coding, what problems did I encounter? How do you know the program is working once it compiles? This is the essence of a test plan – how you know the program is working correctly. Be sure to test and document your work, including cases where input is incorrect. Your program should gracefully handle incorrect input.

**I always encounter the problem that I can not connect the service, and temporarily out of the service. And I even don’t know how to use the command in the Linux system.**

There are other questions you can ask as you proceed, but this gives you a good basis to begin.

The Landing discussion is one of your most important assets, as it connects you to others in the class as well as the tutor/instructor.

B. Research Component (40 marks)

* First, search the Internet for the following items: The JavaMail API, which you must install on your system in order to create JavaMail programs. You will also have to search installation methods for the JavaMail API, and *document* what you find. Also document fully your own experiences as you install, test, and use the JavaMail API.

**The JavaMail API actually is the two jar package, one is the activation.par package, and other is mail.jar package. To install it, I need to download the jar file and use it.**

**Second, If I want to use gmail, I need to use less security app to lower the level of my gmail account.**

* Second, you should investigate various (at least more than two) JavaMail tutorials. You should actually complete at least one full tutorial. Again, *document* what you find, and document your own progress through the tutorial. Comment on the tutorial’s strengths and weaknesses.

### I find the tutorials [JavaMail API tutorial - TutorialsPoint](https://www.tutorialspoint.com/javamail_api/)

### And other is [Sending an Email using the JavaMail API - Oracle](http://www.oracle.com/webfolder/technetwork/tutorials/obe/java/javamail/javamail.html)

**It tell me the knowledge about the SMTP, POP, IMAP and MINE protocols. And I choose to use SMTP to do my assignment So I explore SMTP protocol more deeper. SMTP is an abbreviation for Simple Mail Transfer Protocol. It provides a mechanism for delivering email. We can use Apache James server, PASCAST server, Cmail server, etc. as SMTP server. However, if we purchase host space, the host provider provides the SMTP server by default. For example, my SMTP server is Mel.javaPototC.com. If you use the SMTP server provided by the host provider, you will need to send and receive email authentication.**

**Java applications use the JavaMail API to write, send, and receive email. The JavaMail API uses SPI (Service Provider Interface) to provide intermediary services for Java applications to handle different protocols.**

**I need such class**

* **javax.mail.Session class**
* **javax.mail.Message class**
* **javax.mail.internet.MimeMessage class**
* **javax.mail.Address class**
* **javax.mail.internet.InternetAddress class**
* **javax.mail.Authenticator class**
* **javax.mail.PasswordAuthentication class**
* **javax.mail.Transport class**
* **javax.mail.Store class**
* **javax.mail.Folder class etc.**

**And this class I can get from activation.jar and mail. Jar**

**The specific code look like**

**Properties props = new Properties();**

**props.put("mail.smtp.user",con.senderEmailID);**

**props.put("mail.smtp.host", con.emailSMTPserver);**

**props.put("mail.smtp.port", con.emailServerPort);**

**props.put("mail.smtp.starttls.enable", "true");**

**props.put("mail.smtp.auth", "true");**

**props.put("mail.smtp.socketFactory.port", con.emailServerPort);**

**props.put("mail.smtp.socketFactory.class", "javax.net.ssl.SSLSocketFactory");**

**props.put("mail.smtp.socketFactory.fallback", "false");**

**After Set up all the property, Then I need to set session class to send email**

**I do code like**

**msg.setText(con.emailBody);**

**msg.setSubject(con.emailSubject);**

**msg.setFrom(new InternetAddress(con.senderEmailID));**

**msg.addRecipient(Message.RecipientType.TO,**

**new InternetAddress(con.receiverEmailID));**

**Then I need Transport.send to actually send the message**