**Assignment #6**

1. The attached file (attendance.txt) is a list of email addresses you collected for a conference your company hosted. Create a program that will parse each email address by its name and company. (Note: email parser object below). The company should be sorted in the first column and the person’s name associated with the company should be sorted in the second column; separated with tab character. (first sort is by company; secondary sort is by firstname.lastname).

public class Email {

private String emailStr;

Email() { }

Email(String str) {

emailStr = str;

}

public String parseEmailName() {

String name;

int pos = emailStr.indexOf('@');

name = emailStr.substring(0,pos);

return name;

}

public String parseCompanyName() {

String company;

pos = emailStr.indexOf('@');

dot = emailStr.lastIndexOf('.');

company = emailStr.substring(pos+1, dot);

return company;

}

public String parseExtension() {

int ext;

int dot = emailStr.lastIndexOf('.');

ext = emailStr.substring(dot+1,emailStr.length());

return ext;

}

}

Sample output is listed below:

amzn bob.freed

amzn caitlin.thomas

amzn edward.flak

amzn jill.bennet

amzn mike.reade

fb chris.booker

fb fred.smith

fb jane.bland

fb megan.hill

goog gary.teafer

goog john.kohl

goog larry.page

goog phil.heal

goog zara.war

msft alan.gret

msft darlene.neddle

msft don.shaffer

msft ken.smith

msft sue.flemming

orcl heidi.opal

orcl john.voy

orcl larry.lee

orcl mark.lite

1. Create a histogram on the number of attendees per company for the conference. (can be in same program as #1)
2. Check if bill.gates attended the conference. Output that Bill Gates attended conference. (can be in same program as #1)
3. [Optional] Create an output text file for the output above so that it can be imported in Excel for further analysis. One method of code to write text to an output file: (can be in same program as #1)

String text = "my text\r\n";

BufferedWriter output = null;

try {

File file = new File("example.txt");

output = new BufferedWriter(new FileWriter(file));

output.write(text);

} catch ( IOException e ) {

e.printStackTrace();

} finally {

if ( output != null ) {

output.close(); // need to close file to write to a file

}

}