CSC108 – Introduction to Programming

Inclass10:

**FileIO – Creating email addresses**

You have been given the assignment to create email addresses from an input file of employee names, and an inputted company name using scanner input. The input file name is “EmployeeNames.txt”, and the output file name will be “EmployeeEmails.txt”. The input file has the following format:

**First Middle Last**

Mary Elizabeth Jones

Thomas Peter Morris

John Quincy Smith

The email address for each employee with be built using the first and middle initials appended to the last name. All email addresses must be in lower case. The output file has the following format:

**First Middle Last Email**

Mary Elizabeth Jones mejones@companyname.com

Thomas Peter Morris tpmorris@companyname.com

John Quincy Smith jqsmith@companyname.com

Because you are working with file input, your main method statement should throw an exception. Use the following format:

public static void main(String[] args) **throws Exception** {

}

You can use the String class methods to build the email addresses of the employees. Examples of reading data from a file and writing data to a file are found in the ReadData and WriteData classes posted in Blackboard.

Algorithm:

1. Create the file object from the File class for the output file “EmployeeEmails.txt”.
2. If the file already exists, put message to console and exit program (return code = 0).
3. Create an object from the Scanner class for input from console for the domain name.
4. Build the domain name string with “@” and “.com” (e.g. “@domainname.com”)
5. Create a new object from the Scanner class for the input file “EmployeeNames.txt.
6. Create String variables for firstName, middleName, and lastName.
7. Create an output object from the PrintWriter class.
8. Using a “while” loop and the hasNext method, create and assign firstInit, middleInit, and emailAddress and then output these fields using the output.println method.
9. After writing all output, close the output object - output.close().
10. Print “File written successfully” to the console.

Sample run:

run:

Enter domain name (e.g. ibm): companyname

File written successfully.

BUILD SUCCESSFUL (total time: 10 seconds)

Output file:

Mary Elizabeth Jones mejones@companyname.com

Thomas Peter Morris tpmorris@companyname.com

John Quincy Smith jqsmith@companyname.com

Include the output file in your zipped folder, called “Your Name Inclass10”, and send it to me as an attachment in Blackboard.