Cognizant Technology Solutions

Java IO Exercise

CATP Java Team
5/20/2012

For The Associates:

The documents details two flavors of problem statements

- **Statement # 1:** Few problem solutions have been provided for associates should analyze the program and write down the program output. This will enhance the analyzing skills of associates and also understand "why" part of java programming feature. The associates can then try running the program in eclipse and check if the output with what they have written.
- **Stamen # 2:** There are some problem statements provided similar to the final assessment and associates need to solve it. This will enhance the programming skills of the associates.
  IMPORTANT: These exercises will gear you up for the core java assessment so please develop/analyze the exercise independently. In case you are stuck up reach out to the trainers.

Exercises:

1. Create a class with a method which accepts a File object and a file name and writes the contents of the file in the reverse order to a new file having the entered filename

Cass Name	FileManager
Method Name	createFile
Method Description	Reverse the contents of a File and store it to a new File
Argument	File f, String fileName
Return Type	int : Size of the new File
Logic	Accepts a file and reverses the contents of it and adds to a new File

2. Create a class with a method which accepts a File object and String data which can append the data to the existing file.

Cass Name	FileManager
Method Name	addData
Method Description	Add data to the existing file
Argument	File f, String data
Return Type	int : Size of the new File
Logic	Accepts an existing file object and some string data. The data should get added to the file without the existing data in the file getting removed.

3. Create a class which accepts a file containing the list of states and capitals. State and Capitals are separated by a delimiter (c1) and each state-capital pair is separated by another delimiter (c2). The method should read the contents of the file and load it into a map with the state names as key and capitals as value.

Cass Name	StateParse
Method Name	parseState
Method Description	Reads the states and capitals to a HashMap
Argument	File f, char cc,char c2
Return Type	Map
Logic	Accept a file containing state and capitals Read the contents of the file and parse it as separate state and capitals

4. Create a class which removes a certain word from a File

Cass Name	WordRemover
Method Name	removeWord
Method Description	Removes the word from the file
Argument	File f, String newFileName, String wordToBeRemoved
Return Type	int – Size of new File
Logic	Accept a file Remove the specified word Enter the contents to a new File