NIIT

Course 4 - Sprint 3: Working with File Streams

Problem Statement: C4PC3.1 – Read a CSV File

In an online class, an entry form needs to be filled by the participants. The form requires them to enter their names, but in no specific format. The class incharge needs to keep a record of the names of the participants and store them properly using sentence case.

Write a program that reads a text file of strings from the input.txt file. (The strings are separated by commas.)

Convert the first character of each string in uppercase and the remaining characters in lowercase. Write the newly created strings in the output.txt file. (Use commas without space to separate the strings.)

Practice Challenge - Boilerplate URL – C4PC3.1

https://myrepos.stackroute.niit.com/core_java_boilerplates/c4s3_pc3.1

Problem Statement: C4PC3.2 – Sales Analyzer

Sales analysis is done at regular intervals by sales managers of large organizations. Studying and analysing past sales records, helps these sales managers to decide the products their teams need to focus upon and helps the product managers to understand the likes and dislikes of their customers more effectively.

In this challenge, you need to build an analyzer to analyze the historical sales data of an e-commerce organization, which is available as a CSV (Comma Separated Value) file in the src/main/resources folder and is called purchase_details.csv.

The file contains the following information:

- date - contains the date of the purchase
- customer_id - contains the customer_id of the customer who has purchased the product
- product_category - contains the category_id of the product being sold
- payment_method - this can have only two values, credit for credit card payment and paypal for payments made through PayPal
- value - contains the sales amount in USD
- time_on_site - contains the amount of time a customer has spent on an e-commerce site
- clicks_in_site - contains the number of clicks a user has made while accessing a site. This value is captured to see how many products a customer has visited before making a purchase decision

Following are the key objectives for this challenge:

1. Read the CSV file that contains data of the sales record using Java classes.
2. Create a class to hold the sales record of individual products.
3. Display all the sales records.

You need to handle all exceptional situations that might occur while reading the file, parsing the values, etc.

Practice Challenge - Boilerplate URL – C4PC3.2

https://myrepos.stackroute.niit.com/core_java_boilerplates/c4s3_pc3.2