

# EECS 2032

## Lab 4 Fall 2020

In this lab, you will write a small a shell script to read data from a file, and perform simple database operations on 2 files. The lab should be submitted as **submit 2032 LAB4 file\_name**

### Problem 1

Consider two files

#### **products.txt**

Product_ID	Description	Manufacturer	Price	Inventory
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for example

<i>LKM474</i>	<i>50 inch HD TV</i>	<i>Samsung</i>	<i>899.00</i>	<i>29</i>
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Where

**Product\_ID** is a unique string that identifies the product i.e. ABC123

**Description** is the product description, for example 50 inch HD TV

**Manufacturer** is the manufacturer name

**Price** is the product price.

**Inventory** is the number of units available

The fields are separated by **a tab**

#### **names.txt**

Name	Product_ID	Date
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for example

<i>John Doe</i>	<i>LKM474</i>	<i>Sept, 20, 2020</i>
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where

**Name** is the customer name (could be 2 or more names)

**Product\_ID** is the ID of the product that customer bought

**Date** is the date of the purchase

The fields are separated by **tabs**

Write a bash script (**lab4\_1.sh**) to do the following

to run the program, the command line arguments is a flag and some data, for example

```
bash lab4_1 -s ABCD
```

depending on the flag (**s**), the program should perform some actions as follows

-n customer\_name

The program displays all the items that customer bought (description and price), each item on a separate line.

**Name** bought **description** and its price is **price**

-N "customer\_name"

The program displays the total money spent by this customer

**Name** spent **xx**

-I Product\_ID

The program displays the names of all customers who bought this product as

**name, name, ...** bought **description**

-T product\_ID

The program displays the total values of that product in stock as

**Total value of Description is xx**

where description in the product description associated with product\_ID