# module 1:selecting file to extract frequency

declare FILE refto fp, refto fptr

declare char file\_name[25]//to store file name

get file name in file\_name //console input

open file pointed by fptr pointer in write mode

open file (whose name is stored in file\_name varible) pointed by fp pointer in read and write mode

if fp is equal to NULL

print error message "Error while opening the file "

exit on FAILURE

end if

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# module 2:extracting individual row to new array

decclare char ch

declare 2D array itm with 100X100 size

do until

initialize int i & j=0;

while character in ch stored from pointer fp is not equal to "," end while

while character in ch stored from pointer fp is not equal to "," end while//to remove name and customer id

while character in ch stored from pointer fp is not equal to next line value

if ch equals to end of file

break loop

end if

if ch not equal ',' AND ch not equals next line value

assign value of ch at itm[i][j]

increment j by 1

end if

else

assign '\0' at itm[i][j]

assign 0 to j

increment i by 1

end else

end while

assign '\0' at itm[i][j]

call function print\_items to sort and write into another file with para meter itm,i+1 and fptr

end do while ch not equals END OF FILE

close file refered by fpt

close file refered by fp

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# module 3:printing sorted array in new file

function print\_items pass in 2D array char items int len and FILE refto f1 with void return type

declare int j,i;

call function sortString with parameter items and len

for\_loop initialise i=0 until i<len

print value of items[i] in console

print value of items[i] in fl pointed file

end for\_loop

put next line indicator in file pointed by f1

end function

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# module 4: sorting items alphabetically

function sortString pass in 2D array char items and int len with void return type

declare int i,j

declare char temp[30]

for\_loop1 initialise i=0 until i<len

for\_loop2 initialise j=0 until j<len-1-i

if alphabetically items[j] comes after items[j+1])

copy string of item[j] to temp

copy string of item[j+1] to item[j]

copy string of temp to item[j]

end if

increment j by 1

end for\_loop2

increment i by 1

end for\_loop1

end function

# END TILL MODULE 4 REST TOMMORROW