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#include <stdio.h>

void main()

{

FILE \*fptr;

fopen\_s(&fptr, "C:\\Users\\Maxie\\source\\repos\\Assignment15\_MaxwellMaia\_21236277\\Assignment15\_MaxwellMaia\_21236277\\SampleData.txt", "r");

if (fptr == NULL)

{

puts("Error opening file.\nExiting..."); //the file didn't open correctly

return;

}

else

{

char c = fgetc(fptr);

while (c != EOF)

{

printf("%c", c);

c = fgetc(fptr);

}

}

fclose(fptr);

//Question 2

printf("\n\n\n----------------------PART 2----------------------\n\n");

//open file for reading

//FILE \*fptr;

fopen\_s(&fptr, "C:\\Users\\Maxie\\source\\repos\\Assignment15\_MaxwellMaia\_21236277\\Assignment15\_MaxwellMaia\_21236277\\SampleData.txt", "r");

int day = 0;

int month = 0;

int year = 0;

char region[20];

char rep[20];

char item[20];

int units;

float unitCost;

float total = 0;

float totalIncome = 0.0;

//check if file opened.

char line[101];

if (fptr == NULL)

{

puts("Error Opening File.\nExiting..."); //the file didn't open correctly

return;

}

else

{

fgets(line, 101, fptr);

printf(line, 101);

int k = 0;

while (!feof(fptr)) //loop throught the orders until the end of the file

{

//scan until delimiter. store value in variable for each piece of information for a order.

fscanf\_s(fptr, "%d/", &month);

fscanf\_s(fptr, "%d/", &day);

fscanf\_s(fptr, "%d\t", &year);

fscanf\_s(fptr, "%s\t", region, 20);

fscanf\_s(fptr, "%s\t", rep, 20);

fscanf\_s(fptr, "%s\t", item, 20);

fscanf\_s(fptr, "%d\t", &units);

fscanf\_s(fptr, "%f\t", &unitCost);

fscanf\_s(fptr, "%f\n", &total);

//increase total

totalIncome += total;

//print info to file

printf\_s("%d/%d/%d\t%s\t%s\t%s\t%d\t%f\t%f\n", month, day, year, region, rep, item, units, unitCost, total);

k++; //count amount of orders scanned

}

//print total and average income

printf("\nCurrent Total: %0.2f", totalIncome);

printf("\nAverage income: %0.2f\n", totalIncome/k);

}

fclose(fptr); //close the file

printf("\n\n\n----------------------PART 3----------------------\n\n");

//set the variables to what we want to enter

day = 25;

month = 1;

year = 2022;

region[20] = "Galway";

rep[20] = "Maia";

item[20] = "Pen";

units = 77;

unitCost = 19.99;

total = units\*unitCost;

//open file for appending

fopen\_s(&fptr, "C:\\Users\\Maxie\\source\\repos\\Assignment15\_MaxwellMaia\_21236277\\Assignment15\_MaxwellMaia\_21236277\\SampleData.txt", "a");

fprintf(fptr, "%d/%d/%d\t%s\t%s\t%s\t%d\t%0.2f\t%0.2f\n", month, day, year, "Galway", "Maia", "Pen", units, unitCost, total); //print info into file

fclose(fptr); //close file

}





