/\*gavin skehan

2140824

25/01/22\*/

#include <stdio.h>

#include <string.h>

#include <stdlib.h>

typedef struct {

int month, day, year; // declare variables

char region[50], name[50], item[50];

int units;

float unitCost, total;

} supplies;

void readSupplies(FILE\* fptr); // function

void main() {

FILE\* fptr;

fopen\_s(&fptr, "C:\\Users\\skeha\\OneDrive\\Documents\\programming\\SampleData.txt", "r"); // file

if (fptr == NULL) {

puts("Error Openeing File \n Exiting......."); // if the file isnt read

return;

}

else {

printf("Everything works fine. \n");

char c = fgetc(fptr);

while (c != EOF) {

printf("%c", c);

c = fgetc(fptr);

}

}

fclose(fptr); // closes file

fopen\_s(&fptr, "

readSupplies(fptr);

}

void readSupplies(FILE \* fptr) // function

{

supplies c;

float totalSum = 0;

int i = 0;

while (!feof(fptr)) {

fscanf\_s(fptr, "%d%\*[-/]%d%\*[-/]%d", &c.month, &c.day, &c.year);

fscanf\_s(fptr, "%s\t", c.region, 50);

fscanf\_s(fptr, "%s\t", c.name, 50);

fscanf\_s(fptr, "%s\t", c.item, 50);

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

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

fscanf\_s(fptr, "%f\t", &c.total);

fprintf(fptr, "%d/%d/%d %s\t%s\t%s\t%d\t%.2f\t%.2f\n", c.month, c.day, c.year, c.region, c.name, c.item, c.units, c.unitCost, c.total);

printf("Month is: %d\t", c.month);

printf("Day is: %d\t", c.day);

printf("Year is: %d\t", c.year);

printf("Region is: %s\t", c.region);

printf("Name is: %s\t", c.name);

printf("Item name is: %s\t", c.item);

printf("Number of units is: %d\t", c.units);

printf("Unit cost is: %f\t", c.unitCost);

printf("Total cost is: %f\n", c.total);

float totalSum = c.total; // calculation formula

i++;

float average = c.total / i; // average

}

float average = totalSum / i;

supplies c = {1,25,22,"Galway","Skehan","Pen", 24, 19.99, 479.76}; // part 3

printf("Total income from all of the orders: %f\n", totalSum);

printf("Average order value: %f\n", average);

fclose(fptr);

}