

main()

Description:

Runs the program and calls all functions in sequence.

INPUT: None

OUTPUT: None

load\_csv(file)

Description:

Reads the SampleSuperstore CSV file and converts it into a list of dictionaries.

INPUT:

file (string): path to CSV file

OUTPUT:

list[dict]: each dictionary represents one row of data

calc\_avg\_profit\_margin(data)

Description:

Calculates average profit margin (Profit ÷ Sales) for each Category.

INPUT:

data (list of dictionaries): loaded dataset

OUTPUT:

dict: {Category: average profit margin}

calc\_discount\_percentage(data)

Description:

Calculates discounted order percentage for each Region

INPUT:

data (list of dictionaries): loaded dataset

OUTPUT: dict:

{  
    Region: {  
        by\_orders,  
        by\_quantity,  
        total\_orders,  
        discounted\_orders,  
        total\_quantity,  
        discounted\_quantity}}

write\_results\_to\_csv(avg\_profit\_margin, discount\_percentage, file)

Description:

Writes both calculation results (average profit margin & discounted orders) into one combined CSV output file.

INPUT:

avg\_profit\_margin (dict)  
discount\_percentage (dict)

OUTPUT:

CSV file