Herve TCHIENKIO

CMSC 135-40557

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**Algorithm and pseudocode**

# Personal information

name = "Herve TCHIENKIO"

address = "17600 Sequoia Dr, Gaithersburg, Maryland, 20877"

phone\_number = "240-810-8143"

college\_major = "Cybersecuty"

# Cookie recipe ingredients for 48 cookies

sugar\_cups = 1.5

butter\_cups = 1.0

flour\_cups = 2.75

cookies\_per\_batch = 48

# Function to calculate ingredient amounts based on desired number of cookies

def calculate\_ingredients(num\_cookies):

factor = num\_cookies / cookies\_per\_batch

sugar\_needed = sugar\_cups \* factor

butter\_needed = butter\_cups \* factor

flour\_needed = flour\_cups \* factor

return sugar\_needed, butter\_needed, flour\_needed

# Display personal information

print(f"Name: {name}")

print(f"Address: {address}")

print(f"Phone Number: {phone\_number}")

print(f"College Major: {college\_major}")

# Get the number of cookies the user wants to bake

num\_cookies = int(input("How many cookies do you want to bake: "))

# Calculate and display the required ingredients

sugar\_needed, butter\_needed, flour\_needed = calculate\_ingredients(num\_cookies)

print(f"\nTo bake {num\_cookies} cookies, you will need:")

print(f"{sugar\_needed:.2f} cups of sugar")

print(f"{butter\_needed:.2f} cups of butter")

print(f"{flour\_needed:.2f} cups of flour")

A screenshot of a computer

Description automatically generated

**Program Output Screenshot**