**Programming Exercise 2-10**

# Variables for the number of cookies,

# cups of sugar, butter, and flour.

cookies = 0.0

sugar = 0.0

butter = 0.0

flour = 0.0

# Constants for the number of cookies, cups

# of sugar, butter, and flour in the original recipe.

COOKIES\_RECIPE = 48.0

SUGAR\_RECIPE = 1.5

BUTTER\_RECIPE = 1.0

FLOUR\_RECIPE = 2.75

# Get the number of cookies.

cookies = float(input("Enter the number of cookies: "))

# Calculate the cups of sugar needed to make the cookies.

sugar = (cookies \* SUGAR\_RECIPE) / COOKIES\_RECIPE

# Calculate the cups of butter needed to make the cookies.

butter = (cookies \* BUTTER\_RECIPE) / COOKIES\_RECIPE

# Calculate the cups of flour needed to make the cookies.

flour = (cookies \* FLOUR\_RECIPE) / COOKIES\_RECIPE

# Print the amount of butter, sugar, and flour needed

# to make the specified number of cookies.

print ("To make", cookies, "cookies, you will need:")

print (format(sugar, '.2f'), "cups of sugar")

print (format(butter, '.2f'), "cups of butter")

print (format(flour, '.2f'), "cups of flour")

Constant Real FLOUR\_RECIPE = 2.75

Constant Real BUTTER\_RECIPE = 1.0

Constant Real SUGAR\_RECIPE = 1.5

Constant Real COOKIES\_RECIPE = 48.0

Declare Real cookies, sugar, butter, flour

Start

Display “Enter the number of cookies.”

A

A

Input cookies

sugar = (cookies \* SUGAR\_RECIPE) / COOKIES\_RECIPE

butter = (cookies \* BUTTER\_RECIPE) / COOKIES\_RECIPE

flour = (cookies \* FLOUR\_RECIPE) / COOKIES\_RECIPE

Display “To make”, cookies, “cookies, you will need:”

Display sugar, “cups of sugar.”

B

B

Display butter, “cups of butter.”

Display flour, “cups of flour.”

End