Write a function driving\_cost() with input parameters miles\_per\_gallon, dollars\_per\_gallon, and miles\_driven, that returns the dollar cost to drive those miles. All items are of type float. The function called with arguments (20.0, 3.1599, 50.0) returns 7.89975.

Define that function in a program whose inputs are the car's miles per gallon and the price of gas in dollars per gallon (both float). Output the gas cost for 10 miles, 50 miles, and 400 miles, by calling your driving\_cost() function three times.

Output each floating-point value with two digits after the decimal point, which can be achieved as follows:  
print(f'{your\_value:.2f}')

Ex: If the input is:

20.0

3.1599

the output is:

1.58

7.90

63.20

Your program must define and call a function:  
def driving\_cost(miles\_per\_gallon, dollars\_per\_gallon, miles\_driven)

main.py

# Define your function here.

if \_\_name\_\_ == '\_\_main\_\_':

# Type your code here.

Problem # 2

A pedometer treats walking 1 step as walking 2.5 feet. Define a function named feet\_to\_steps that takes a float as a parameter, representing the number of feet walked, and returns an integer that represents the number of steps walked. Then, write a main program that reads the number of feet walked as an input, calls function feet\_to\_steps() with the input as an argument, and outputs the number of steps as an integer.

Use floating-point arithmetic to perform the conversion.

Ex: If the input is:

150.5

the output is:

60

The program must define and call the following function:  
def feet\_to\_steps(user\_feet)

# Define your function here

if \_\_name\_\_ == '\_\_main\_\_':

# Type your code here.