day43 trip cost calculator
Due: Friday 12/8/23
Today's assignment: Write a program that helps the user calculate the cost of going on a trip. First, ask the user where they are headed. Ask the user the current cost of gas, how efficient their car is in miles per gallon (mpg), and how long their journey is in miles, then print some facts about their trip.

Sample output is here (feel free to be creative with the text, but get the same functionality):

```
Welcome to the trip cost calculator.
Please state your destination: Portola Valley
Enter gas price per gallon: 4.59
Enter the miles per gallon efficiency of your car: 49
Finally, enter the distance you will travel: 200
Thanks. Now here are some facts for you:
Your trip to Portola Valley will require 4.1 gallons of gas.
The fuel will cost approximately $18.73.
Calculate another? (y/n)n
```

You know how to do almost all of this already. Open your old programs to get ideas if you are stuck.
What you don't know is how to have the user enter the gas price with a decimal (when we do an input call using an int() call Python crashes if you enter a decimal number.) To do today's assignment you need to use a float variable for the price, because gas prices are rarely whole numbers. The float type of variable can contain a decimal number. Here is how to do this:
price = float(input(" Enter gas price per gallon: "))
Now you can use the variable "price" like any other variable, it's just a decimal number. Use the line I gave you in your program! Only make the gas price a float, the other numbers should be integers.

Your next question might be: how do I calculate the amount of gas required and how do I figure out the cost? Well... if you have a float variable price (cost of 1 gallon of gas), an int variable mpg (how many miles per gallon the car gets), and an int variable distance, you can find the amount of gas you need like this:

```
gas_needed = round(distance/mpg,1)
```

That gives you the answer rounded to one decimal place.
You can calculate the trip cost like this:

```
trip_cost = round(gas_needed*price,2)
```

This gives us the cost rounded to the nearest penny.
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- Name your program day43 trip cost calculator and put your name in a comment at the top of your program.
- Ask user for a destination name.
- Ask user for the gas price as a float variable.
- Ask user for miles per gallon (mpg) efficiency of their car as an int.
- Ask user for miles to be traveled as an int.
- Print out a message that includes their destination, how many gallons they will use and the approximate cost of the gas. Gas is rounded to the nearest 10th and the cost is rounded to the nearest penny.
- Ask the user if they want to run again.
- Copy an example run from your program and paste it at the end of your code between sets of triple quotes so that I can see that you tested it.


## Extra credit:

If you'd like to add other features, consider adding a line that says how long the drive will take if you are driving at 65 miles per hour. This is optional, but I'll give you extra credit if you do this. If you do this, include a run showing this feature in your sample output.

