

Alice's Restaurant - Explore

Alice's code has some new elements we haven't seen before, so let's experiment a bit to figure out how it works! Open the "Alice's Restaurant starter file, click "Run", and try using the `cost` function in the Interactions window.

1) What does `(cost "hamburger")` evaluate to? _____

2) What does `(cost "pie")` evaluate to? _____

3) What if you ask for `(cost "fries")` ? _____

4) Explain what the function is doing in your own words.

5) What is the function's name? _____ Domain? _____ Range? _____

6) What is the name of its variable? _____

7) Alice says onion rings have gone up to \$3.75. Change the `cost` function to reflect this.

8) Try adding menu items of your own. What's your favorite?

9) For an unknown food item, the function produces the String `"That's not on the menu!"`

Is this a problem? Why or why not?

10) Suppose Alice wants to calculate the price of a hamburger, *including a 5% sales tax* . Draw a Circle of Evaluation for the expression below.