

Homework 4

Review: the Weather App [due Friday]
July 26, 2017

If you have any questions, let me know via email or text!

In the last lesson, we built together a very cool weather app together. We built this cool weather app using many things we learned... such as:

- if, elif, else
- loops (while, for)
- in
- lists

In this homework, we will review and analyze the code we coded together.
Refer to code.pdf which was attached to the email.

I want you to use the **word** bank below to complete this assignment. Note that **the words in the word bank is used exactly once... all words are used.**

Word Bank:

0	10	2	2 words
28	3	67	Thank you for using this app
ch	continue	days	empty string
exit	gf	gt	list
loop	o	opt	option
option	prints	q	understand
valid	will	will	will
will not	will not	zipcode	zipcode
zicode is invalid			

1 Checking the User's Zippers

1. In line 13, we are asking the user for their _____.
2. The variable that stores the user's zipcode is called _____.
3. The purpose of line 15 to 17 is to make certain that the user inputed a _____ zipcode.

4. The meaning of
 5. In Line 15, if zipcode = “98105”, then the program _____ go into the body (line 16 and 17) of the if statement.
 6. In Line 15, if zipcode = “124567334”, then the program _____ go into the body (line 16 and 17) of the if statement.
 7. In Line 15, if zipcode = “4321”, then the program _____ go into the body (line 16 and 17) of the if statement (Note: this may be a bit tricky).
 8. If the program did end up going into the body of the if statement (line 16 and 17), the program will print “_____” and _____ the program.
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2 *o*, you want to know the options?

1. In Line 28, we are asking the user for an _____.
 2. The variable that stores the user’s option is called _____.
 3. In line 29, we are checking if the user inputted _____ which stands for _____.
 4. In line 30, we call a function called print_options() which is defined from line _____ to _____.
 5. print_option() function _____ out all the options available for the user.
 6. On line 31, _____ means that we will not look at any code from line 32 to 70 and go straight back to the beginning of the loop at line _____.
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3 Don’t be a *quitter*!

1. If the option the user typed was not *o* in line 29, then we check if the option inputted _____ which stands for quit.
 2. If the option the user inputted was *q*, then we print “_____” in line 34.
 3. If the option the user inputted was *q*, then, in line 34, we break which means that we leave the _____. Since there is nothing after the loop, the program ends after “breaking”.
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4 I d0N't kN0w Waht tH1s m3an5

1. In this code, there are _____ places where we notice that the option the user inputted was incorrect.
 2. In line 35-37, we print “invalid query” because the user inputted an _____.
 3. In line 48-49, we print “invalid query” because the query had 1 word, but the first word was neither ‘gt’ nor ‘_____’.
 4. In line 66-67, we print “invalid query” because the query had _____ and the second word was a number and the first word was neither ‘_____’ nor ‘gf’.
 5. In line 69-70, we print “invalid query” because the code was not able to _____ what the user was trying to say.
 6. If option = ‘gt’, then the program _____ print “invalid query”.
 7. If option = ‘gt 1 2’, then the program _____ print “invalid query”.
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5 Ok python, what’s the weather like in 2 days?

1. The user must type ‘gf _____’ to get the weather in 2 days.
 2. The code that would get this result is in line _____.
 3. While humans start counting from 1, computers start counting from _____.
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6 Ok python, when is it going to rain?

1. The user must type ‘_____ rain’ if the user wants to get the days of when it is going to rain.
2. From line 53 to 57, we are storing all the _____ in numbers whose forecast contains the query that the user specified.
3. days variable in line 53 is of type _____.