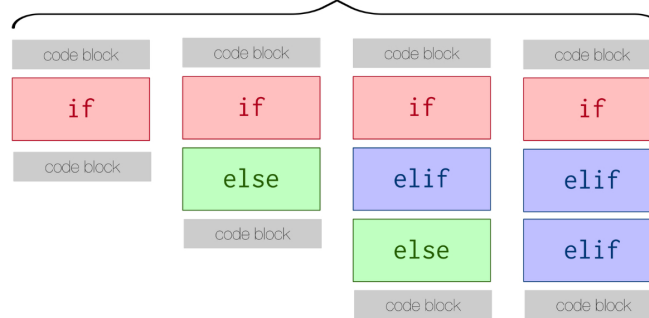# 8.11. 🤖 Setting Up Conditionals

Before writing your conditionals, it can be helpful to make your own flowchart that will plot out the flow of each condition. By writing out the flow, you can better determine how complex the set of conditionals will be as well as check to see if any condition is not taken care of before you begin writing it out.

To make sure that your code covers all of the conditions that you intend for it to cover, you should add comments for each clause that explains what that clause is meant to do. Then, you should add tests for each possible path that the program could go though. What leads to certain conditional statements being executed? Is that what you intended?

8.11.1. Choosing your type of Conditional

When adding conditionals to your program, you should also consider the kinds of conditionals that are at your disposal and what would fit best.

valid if/elif/else order examples

Though you'll use them often, remember that conditional statements don't always need an else clause. When deciding the flow, ask yourself what you want to have happen under a certain condition. For example, if you wanted to find all of the words that have the letter 'n' in them. If there's nothing that needs to happen when a word does not contain the letter 'n' then you won't need an else clause. The program should just continue onward!

condition-11-1: What is the best set of conditonal statements provided based on the following prompt? You want to keep track of all the words that have the letter 't' and in a separate variable you want to keep track of all the words that have the letter 'z' in them.

○ A. If statement - Else statement

○ B. If statement - Elif statement

⦿ C. If statement - If statement

○ D. If statement - Elif statemenet - Else statement

Check me   Compare me

✔ Yes, two if statements will keep track of - and properly update - the two different accumulator variables.

Activity: 1 -- Multiple Choice (question7_11_1)

condition-11-2: Select the most appropriate set of conditonal statements for the situation described: You want to keep track of all the words that contain both "t" and "z".

○ A. If statement - Elif statemenet - Else statement

○ B. If statement - Else statement

○ C. If statement - Nested If statement

⦿ D. If statement

○ E. If statement - Nested If statement - Else statement

Check me   Compare me

✔ Yes, this is the most concise way of writing a conditional for that prompt.

Activity: 2 -- Multiple Choice (question7_11_2)

You have attempted 3 of 2 activities on this page

✔ Completed. Well Done!

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