

CSCI 1301 – Lab 19

October 22, 2018

1 Checkpoint

The code we just studied in class, slightly expanded and with an application program, is available to download¹.

2 Practicing if and switch

Initialize a `day` string variable, a `myVar` int variable and a `initial` char variable. During this part, change and display on the screen the values of those variables to test that your statements behave as they are supposed to.

2.1 From switch to if-else

1. Write a `switch` statement that sets a flag to true if the value of `day` is "Mon.", "Tue.", "Wed.", "Thu." or "Fri.", and to false otherwise.
2. Rewrite the previous statement as an `if-else` statement.

2.2 From if-else to switch

1. Write a `if-else` statement that doubles the value of `myVar` if `myVar` is 3, 5 or 7.
2. Can you rewrite the previous statement as a `switch` statement?

2.3 Deciding

1. Write a statement that doubles the value of `myVar` and sets `initial` to 'M' if `day` is equal to "Sat". What is the appropriate kind of statement to do this?
2. Write a statement that displays "Hello" on the screen if the value of `initial` is 'E' or 'e', "Bonjour" if the value of `initial` is 'F' or 'f', "Guten Tag" if the value of `initial` is 'D' or 'd'. What is the appropriate kind of statement to do this?

2.4 Complex Conditions

1. Write a statement that doubles the value of `myVar` if `day` is "Sun.", triples the value of `myVar` if `day` is not "Sun." and `initial` is 'a', and sets `myVar` to 0 otherwise.
2. Write a statement that sets `myVar` to 0 if `initial` is an upper-case letter, and to 1 otherwise. You can either use the `IsUpper` method ([https://msdn.microsoft.com/en-us/library/9s91f3by\(v=vs.110\).aspx](https://msdn.microsoft.com/en-us/library/9s91f3by(v=vs.110).aspx)), or look at the "pushing further" part of the previous lab to understand how to test if a character is an upper-case letter.

¹[LoanCalculator.zip](#)