

## CMSC21 Lab Exercise 4 – Making decisions

Create the following functions:

1. `int isRetired(int age)` - Returns true if age is 65 or above
2. `int isAcid(float pHLevel)` - Returns true if the supplied pH level is less than 7
3. `int isTeenager(int age)` - Returns true if age is between 13 and 19, inclusive
4. `int isEven(int x)` - Returns true if the number supplied is even. (Hint: even numbers, when divided by 2, have no remainder)
5. `int isMultipleOf10(int x)` - Returns true if the number supplied is a multiple of 10. (Hint: even numbers are a multiple of 2)
6. `int isVowel(char letter)` - Returns true if the provided letter is either of these: "a", "e", "i", "o", "u"
7. `int isConsonant(char letter)` - Returns true if the provided letter is **neither** of these: "a", "e", "i", "o", "u"
8. `char toUpper(char letter)` - Given a lowercase character, returns the same character but in uppercase. (Given 'c', returns 'C'.) If letter is not a lowercase character in the alphabet, returns the character.
9. `char toLower(char letter)` - Given an uppercase character, returns the same character but in lowercase. (Given 'C', returns 'c'.) If letter is not an uppercase character in the alphabet, returns the character.
10. `int toInt(char number)` - Given a single character representing a numeric digit, returns the character as a digit. (Given '1', returns 1.) If number is not a single numeric digit, returns -1.
11. `char toChar(int number)` - Given a single integer digit, returns the digit as a character. (Given 1, returns '1'.) If number is not a single numeric digit, returns the null character '\0'