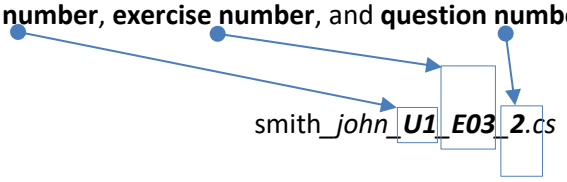
EXERCISE 04 - DECIMAL VALUES, DOUBLE VARIABLES, & TRUNCATION

IMPORTANT: Before submission, make a copy of your **'Program.cs'** file for each question and then rename each file to the following:

File Names:

- *last name_first name*_U1_E04_1.cs
- *last name_first name*_U1_E04_2.cs

Note: Along with last name and first name, make sure the end of the filename (i.e., before the **.cs**) has the **unit number**, **exercise number**, and **question number.** For example:



1. **Create variables** for each mathematical expression and output the indicated **variable** to the console (submit only **one file** for this question):

   Notes:
   - Remember to use **BEDMAS**
   - **Avoid Truncation** by using a **'cast'** when needed.

   a) **Integer variable** '**a'** equals 7 multiplied by 3 plus 2, **all** multiplied by 6
   (output **'a'** to the console)

   b) **Double variable 'b'** equals the division of 3 by 2, **all** divided by 7
   (output **'b'** to the console)

   c) int **r** = 2
   double **s** = 5 divided by **'r'**
   (output **'s'** to the console)

   d) int **f** = 4
   int **g** = 7
   double **h** = **'f'** divided by **'g'**
   (output **'h'** to the console)

   e) int **w** = 4
   double **x** = 5.3
   double **z** = w / x
   double **e** = '**z'** divided by the **result** of 1 divided by '**w'**
   (output **'e'** to the console)

   f) int **i** = 7
   int **j** = 2
   double **k** = **'i'** plus 3 multiplied by 5, all divided by **'j'** plus 3 multiplied by 6
   (output **'k'** to the console)

2. Consider the following integers:

```
int a = 4, b = -2, c = 11, d = -4, e = 5, f = 9, g = 7;
```

   Create a **double variable** named **'average'** that will calculate the **average** of the **integer variables** above (i.e., **add** all **integer variables** together then **divide** by the **number of integer variables you added together**). Output **'average'** to the **console** with a precision of **2 decimal places.** Use **BEDMAS** and **avoid truncation!**