

## C4M Homework: Week 4 Level 1

Please submit your solutions to these problems on MarkUs at <https://markus.cdf.toronto.edu/c4m-2016> using your UTORID to authenticate.

In the following questions, you will practice getting input from the user, and also use your knowledge of the Python memory model. Make sure that you understand the choices that you make about returning variables vs. modifying existing variables, etc.

1. Write a function `get_int10_from_input()` which can be used to get an integer from input and compute its value times 10. The function should repeatedly ask for input from the user, and, if the input it got from the user is numerical, multiply it by 10 and return it. Here is what a sample interaction with the user could look like:

```
In [21]: get_float_from_input()
Attempt n. 1: please enter an int: hi
'hi' is not a numerical value. Trying again...
Attempt n. 2: please enter an int: how are you feeling today?
'how are you feeling today?' is not a numerical value. Trying again...
Attempt n. 3: please enter an int: eleventy billion
'eleventy billion' is not a numerical value. Trying again...
Attempt n. 4: please enter an int: 123
Returning the number 1230
Out[21]: 1230.0
```

Assume that you only need to try to get a valid integer at most 10 times.

2. Now write a function `get_5_ints()` that obtains a list containing 5 integers from input and returns that list
3. Now write a function `add_5_ints(int_list)` that takes in an already-existing list, and adds 5 integers that it obtains from input to it. Make sure that you understand how the information obtained from input can be usable outside the function.