Lab 1: Integer Representations

This is an INDIVIDUAL assignment. Due date is as indicated on BeachBoard. Follow ALL instructions otherwise you will lose points. In this lab, you will be implementing two functions. This will require you to utilize the Python concepts that we have discussed so far and the algorithms of integer representation.

Instructions:

1. Take a close look at the `bin_oct_hex.py` file. There are two empty functions: `to_decimal(num, base)` and `to_base(dec_num, base)`. Read through both of their descriptions carefully. Remember, you will lose points if you do not follow the instructions. We are using a grading script
2. Your job is to implement both of these functions so that it passes any test case. There are some sample test cases provided for you, but these are not the only cases that we will test. There will be 30 test cases in addition to the ones that you see.
3. After completing these functions, comment out the test cases (or delete them) or else the grading script will pick it up and mark your program as incorrect.
4. Rename your `bin_oct_hex.py` file to
   `lastName_firstName_lab#_idNumber.py`
   this step is important!!!! Do not forget it! Please avoid spaces when renaming your file.
5. Convert your newly named `bin_oct_hex.py` file to a `.txt` file with the same naming scheme as above. Submit your newly named `bin_oct_hex.py` file and your `.txt` file on BeachBoard. Do NOT submit it in compressed folder.

Grading rubric

Points	Requirement
5	Correct submission (2 correctly named files, not in any folder)- all or nothing
3	Passes the test cases listed in `bin_oct_hex.py` and followed instructions by deleting/commenting the test cases in the file (all or nothing)
7	Passes the remaining 30 test cases (you can get a fraction of these points)