

Assignment #1 – Simple Numeric Programs.

All three parts are to be included in one program called *Assignment1.py*

Include header comment codes:

```
#Assignment1.py  
#yourname  
#yourclassblock
```

Email: When you email, you must include a subject line with the following format. If you do not, I will delete your email, and it will be considered unsubmitted!

Subject line: Assignment1, *Name*, *Block*

-Each of the three sections should be in ONE file named: A1_ **yourname**.py

-Make sure the file is saved in your u:\CS110 folder

-At the end of this assignment, there is a sample output which shows **EXACTLY** how your output should be!

-email file to andrew.colwell@nbed.nb.ca

Part 1

Create a program to calculate a 14% service tip for restaurant server. Have the user input the meal cost, then print out how much the tip would be for 14% of the meal cost.

Part 2

Create a program that gets the user input for a number between 0 and 9.

Double the input number.

Add 5 to the result.

Multiply the result by 5.

Print out the result.

Ask for another number from the user between 0 and 9.

Add this number to the result.

Print out the result.

Subtract 25 from the result.

Print out the first digit of the result with this format: *The first number you chose was:*

Print out the second digit of the result with this format: *The second number you chose was:*

Part 3

Create a program that gets the user input of a number that ends in 5 and store it in userNum.

The program must then manipulate the number in the following way:

Ignore the last five.

e.g. 65 → 6

Multiply what is left by itself +1

$6*(6+1) = 42$

Then put 25 as the last two digits.

4225

Print the result as: The square of userNum is:

The square of 65 is 4225.

Sample output:

```
>>> ===== RESTART
>>>
How much was the meal? 21
A 14% tip would be $ 2.94

Please type a number between 0 and 9:3
The result is: 55
Type another number between 0 and 9:6
The result is now: 61
The first number you chose was: 3
The second number you chose was: 6

Enter a number that ends in 5:65
The square of 65 is 4225
>>>
```