

## Test 3 Practice – CSCI107 – Joy and Beauty of Computing

1. REVIEW: Write a program that has a main function and one other function that will print the sum of 1 to some number. Read in a number in your main function. Create a function that uses a **while loop** to add 1 to n. The function will pass back the sum. Print the sum in your main function.

Example:

Enter a number: 9

The sum of 1 to 9 is 45

2. Using a while loop: read in a string and print the string repeatedly with the first character of the remaining string removed

Example:

Enter string: abcdef

bcdef

cdef

def

ef

f

3. Using recursion: read in a string and print the string repeatedly with the first character of the remaining string removed (same output as before)

4. Print a given string backwards with the first character uppercase and all others lowercase. Use a recursive function.

Example:

Enter a string:

abcdef

Fedcba

5. Write a program to read in number and create the reverse of that number. Add the two numbers together and print the sum as:

Example:

Enter a number: 147

147 + 741 = 888