**North South University**

**Department of Electrical and Computer Engineering**

**CSE 115L: Programming Language I**

**Lab – function (part 2)**

**Exercise:**

1. Write a program using function to print all prime no.s between 1 and n
2. Write a program using function to print all perfect no.s between 1 and n
3. Write a program using function to print all palindrome no.s between 100 and n
4. Write a program to compute the factorial of an input number and print it. Use a function to compute the factorial.
   1. Write one function that uses local variable to compute factorial and return it to main function.
   2. Write another function that uses global variable to compute factorial
   3. Demonstrate that both functions compute the same value.
   4. Explain the difference between these two functions to the instructor.
   5. Debug your program and show how execution goes from caller function to the callee function and how the callee function returns to the caller function (here main function).