# Modularizing Code with Methods

Hui Chen

Department of Computer & Information Science

Brooklyn College

# Objectives

- To develop reusable code that is modular, easy to read, easy to debug, and easy to maintain (§6.6).

# Outline

- Discussed
  - Defining and invoking value-returning methods
  - Defining and invoking void methods
  - Parameter passing and passing by value
  - Pitfalls and errors
- To discuss
  - Using method to modularize several example problems
  - Converting hexadecimal to decimal

# Modularizing Code

- Methods can be used to reduce redundant coding and enable code reuse.

- Methods can also be used to modularize code and improve the quality of the program

# Programming Problems

- Rewriting using methods

  - Greatest Common Divisors

  - Print Prime Numbers

  - Is Palindrome?

  - Converting Decimal to Hexadecimal

- New problem

  - Convert Hexadecimal to Decimal

# Questions