Lec 8 Functions

Why do we need function?

How to define function?

return type name of the function input names and their types

Questions to think about

- · Can we define two functions with the same name?
- How to define a function to handle different data type correctly?
- Can we define a function after the main function?

Can we define two functions with the same name?

• Yes, if the input types for the two functions are different; otherwise, no.

Can we define a function after the main function?

- Yes, if we declare the function before the main function.
- Declaring a function means specifying a type for what is named, no details needs to be provided for the function body.
- Example: double f(double);
- It simply tells the compiler that you can use the name, it doesn't allocate memory.

Definition vs Declaration

- Definition
 - the implementation
 - provide function body
 - consume memory

- Declaration
 - the interface
 - only supply argument types and return type
 - doesn't consume memory

Example

- Write a function to convert string to integer.
- Examples: