

# Functions and Modular Programming

- ❖ Functions:
  - Need, Definition, Usage
  - Prototypes
- ❖ Scopes
  - Scope and visibility
  - Storage classes
- ❖ Modular programming
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- ❖ Makefiles

- ❑ Function: a group of statements that together perform a task
  - divide up your code into separate functions such that each performs a specific task
  - every C program has at least one function, which is **main()**
  - most programs define additional functions
  
- ❑ Why
  - to avoid repetitive code
    - written once, can be called infinitely
  - to organize the program
    - making it easy to code, read, debug and collaborate
  
- ❑ Defining functions:
  - Predefined: We have already seen
    - main, printf, scanf, getchar, gets
  - User-defined

# Defining Functions