

Recitation 1

Please use compsci_cs250@colostate.edu for communications instead of using Canvas messaging.

Check MS Teams
Check course website:

<https://www.cs.colostate.edu/~cs250/>

Recitation Structure

- Attendance is required
- Activity
 - Optional Recitation Worksheet

Good Coding Practice

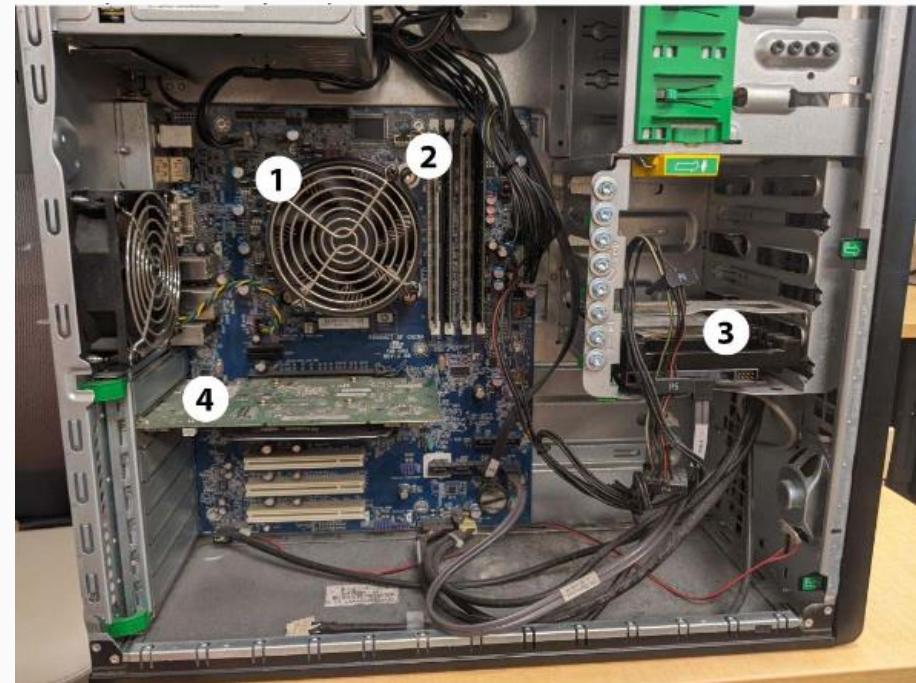
- Code should be modularized
 - Easier to read
 - Easier to test and debug
 - Easier to find things
 - Reusability

Basic Components of a Computer

- Motherboard
- CPU (Central Processing Unit)
- Main Memory/RAM (Random Access Memory)
- Storage (Hard Disk Drive)
- PSU (Power Supply Unit)
- Network adaptors
- GPU (Graphics Processing Unit)

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What is a Java package?

- **A Namespace for Your Code:** Packages are used to group related classes and interfaces together.
- **Avoiding Name Conflicts:** They prevent naming collisions. You can have two classes named `Exercise1`, as long as they live in different packages.
- **Organization:** Just like folders on your computer organize files, packages organize Java classes.
- **The package Keyword:** Every Java file belonging to a package must start with the `package` statement as the first line of code.

Directories vs. Packages

- **One-to-One Mapping:** In Java, the package name must exactly match the directory structure on your hard drive.
- **The Dot Notation:** We use dots . to represent subdirectories.
 - **Package:** cs250.exercises
 - **Folder Path:** cs250/exercises/
- **Case Sensitivity:** Java is case-sensitive. If your package is cs250, your folder must be named cs250, not CS250.

Compiling and Running with Packages

- **Navigating the Terminal:** You should always compile and run your code from the **root directory** (the folder containing the cs250 folder), not from inside the exercises folder.
- **Compilation:**
`javac cs250/exercises/Exercise1.java`
- **Execution:** You must use the "Fully Qualified Name" of the class.
`java cs250.exercises.Exercise1 <arguments>`

Your turn!

1. Everyone log into a lab machine
2. Open VS Code
3. Create a terminal (Ctrl + `)
4. mkdir cs250
5. cd cs250
6. mkdir exercises