

Try it out! (5 minutes)

Let's set up an IntelliJ project for these sessions that we'll slowly build up on. IntelliJ is a Java IDE (integrated development environment):

- Source code editing
- Build automation
- Debugging
- Java compiler
- Highlights syntax for clarity
- Highlights syntax errors while writing code
- Makes useful suggestions for completing in-progress code
- Easy navigation through code

To do:

1. Open IntelliJ / download it: <https://www.jetbrains.com/idea/download/> (as a student, you can sign up for a student pack to get access to the Ultimate version and other JetBrains software <https://www.jetbrains.com/community/education/#students>)
2. Create a new project, completely empty (do not use templates, frameworks or anything else, just a basic project).

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Current location in project hierarchy

View current file in project hierarchy

Run a file with a *main* method

Build project

Configure the run

Run a configuration

Run with **debug**

Project files

The screenshot shows the IntelliJ IDEA IDE interface. The top menu bar includes File, Edit, View, Navigate, Code, Analyze, Refactor, Build, Run, Tools, VCS, Window, and Help. The 'Run' menu is open, displaying options such as Run 'Run' (Shift+F10), Debug 'Run' (Shift+F9), Run 'Run' with Coverage, Run with Profiler, Run... (Alt+Shift+F10), Debug... (Alt+Shift+F9), Profile..., Attach to Process... (Ctrl+Alt+F5), Attach Profiler to Process..., Edit Configurations..., Test History, Import Tests from File..., Open Profiler Snapshot, Stop (Ctrl+F2), Stop Background Processes... (Ctrl+Shift+F2), Show Running List, Show Code Coverage Data (Ctrl+Alt+F6), Reload Changed Classes, Step Over (F8), and Force Step Over (Alt+Shift+F8). The 'Run...' option is highlighted. The left sidebar shows the Project tool window with the project hierarchy: ECS7002P-SS > src. The 'src' folder is selected. The bottom toolbar contains icons for Run (a green play button), Add Configuration... (a plus icon), and Run with Debug (a play button with a bug icon). Annotations with arrows point to these elements: 'Current location in project hierarchy' points to the 'src' folder; 'View current file in project hierarchy' points to the 'src' folder; 'Run a file with a main method' points to the 'Run...' menu item; 'Build project' points to the Run toolbar icon; 'Configure the run' points to the 'Add Configuration...' toolbar icon; 'Run a configuration' points to the 'Run with Debug' toolbar icon; and 'Run with debug' points to the 'Run with Debug' toolbar icon. The 'Project files' label points to the Project tool window.