Gradle Notes

* Using syntax:
  + Task won’t be created and configured unless it’s going to take part in the build, saving build resources
  + Registered but not created
* Task dependencies
  + : runs task A ahead of task B
  + : forces ordering
  + : forces a task to run regardless of execution failures of previous tasks
* Linking tasks
  + Remove duplication: no need to for
  + Improve maintainability
  + Simplify the build script
* : will appear on both the compile and runtime class path
* Requirements of build tools:
  + Compile classes
  + Manage resources
  + Handle dependencies
  + Package
  + Run tests
* Gradle features:
  + Compile code:
  + Processing resources:
  + Producing a jar file:
  + Running tests:
* Build Process
  + : Builds the jar artifact
    - * Runs
  + Runs the tests
    - * Runs
  + runs both assemble and check
* Production Path
  + Compile only: used only when dependency needed to compile. E.g., if a deployed instance already has the library, it is not required at runtime
  + Implementation: application directly pulls from this dependency, required both at compile time and run time
  + Runtime only: needed at run time. E.g., connection to database
* ABI: Application Binary Interface
  + Includes:
    - Return types
    - Public method parameters
    - Types used in parent class
* will appear both at **compile** and **runtime**
* will be **runtime** only
* Maven terminology
  + : compile and runtime
  + : runtime