1CWK60 Design Checklist

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| Checklist Question | Chapter in Textbook  <https://github.com/SBakerMmu/sda-2025-student/wiki> |
| **Have you** written your code using a coding standard such as the Google Java Style Guide? |  |
| **Have you** Have you chosen sensible, ‘intention revealing’ names for classes, interfaces, methods and variables? | Single class design (1): Access control |
| **Have you** organised related classes into packages and used access control to hide internal implementation behind a public application programming interface (API)? | Single class design (1): Access control |
| In your classes, **have you** thought about validation of inputs (preconditions), checking postconditions and checking any class invariants? | Single class design (2): Contracts |
| **Have you** written dedicated classes that represent values in your software design (the Value Object pattern)? | Single class design (3): Value Objects |
| **Have you** looked at each class and asked if it has too many responsibilities (the Single Responsibility Principle) and refactored your classes accordingly? | Designing with multiple classes (1): Maintainable Code.  Designing with multiple classes (2): Patterns |
| **Are you** handling variation between algorithms by encapsulating the algorithms behind a common interface, so the algorithm can be varied at runtime? | Polymorphism  Handling variation using a Strategy  More ways of handling variation |
| **Have you** written a README.md in Markdown for your project that states which variations and advanced features have attempted? | Documenting software design |
| **Does your** README.md include a description of the key classes and their responsibilities? |  |
| **Does your** README.md contain an explanation of the flow through a successful program execution? |  |
| **Does your** README.md contain explanation of where and why any design patterns have been used (naming the design pattern)? |  |
| **Does your** README.md use terminology correctly? |  |
| **Have you** checked that your submitted ZIP file contains the **complete** source code for your submission as an IntelliJ project **and** your README.md file. |  |
| **Is your** submission file named **Firstname\_Lastname\_StudentIDNumber.zip** |  |

END