In the phase Software Design the objective is to construct a computer program in high level code, like Java. This should be realised with all requirements defined in the Software Specification. The code doesn’t necessarily need to be compilable and executable. It serves as a stepping stone towards the Assembly Language program of the next phase.

Another objective in this phase is to construct a document containing the design decisions with explanation and/or motivation. To assure correctness of the program it’s needed to explain correctness, at least, informally. This should also be part of the document.