## Unit 2 Assignment 7

# Software Development

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| Word Processors | Microsoft Word, Notepad, Text Edit |
| Spreadsheets | Microsoft Excel |
| Presentations | Microsoft PowerPoint |
| Databases | FileMaker |
| Graphics | Photoshop, iMovie, Photo Booth |
| Games | Google Chrome (browser-based games)  Steam, App Store, Chess |
| Communications | FaceTime, Skype, iMessage, Mail, |
| Browsers | Google Chrome, Safari |

1. The **Software Development Lifecycle** is made up of five essential phases. These phases consist of Planning, Analysis, Design, Implementation and Maintenance.

**Planning** is the stage where a company/team gets the information they need to perform the task at hand.

**Analysis** is the stage where a company/team answers questions about target audience, data input, data usage, etc.

**Design** is the stage where a company/team designs how the software will work. Creating flowcharts and screen charts is part of this phase.

**Implementation** is the stage where a company/team codes the software. This is the largest phase, as testing and debugging of the software also takes place during this phase.

**Maintenance** is the stage where minor problems come up after the software has been released. The company/team work to fix these problems.

1. Source code is a any form of text that is written by a programmer in a programming language.

Machine code is the code that the machine understands. Source code is compiled, where it gets translated into a language that a machine would understand. Machine codes only use 0s and 1s.

1. A compiler searches a program for all errors and lists them. Once the program is free of errors, the code is converted into machine code. This usually takes more time as compilers scan the entire code, and then list errors. Interpreters translate code one line at a time. This means that it takes less time for errors to arise, and makes it easier to debug than when using compilers.
2. Yes, there is, as when a programmer needs to debug for code, compilers will scan the entire code taking a lot of time, whereas interpreters scan the code line by line. Compilers also make it difficult to debug, as they just list the errors, while interpreters find errors line by line and stop at the first error they find.

Type of bread

Type of Patty

Toasted?

Is that all?

If (yes) {take order}

Else {say your order will be ready in a couple minutes}

Ingredients?

Spices? (salt, pepper)

Sauces?