Chapter 02 Worksheet

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- 1. Give an example of a binary number. (While a number such as ``1" can be a binary, decimal, and hexadecimal number, try coming up with an example that better illustrates the differences between the different bases of numbers.)
- 2. Give an example of a decimal number.
- 3. Give an example of a hexadecimal number.
- 4. Convert the numbers 1, 10, 100, 1000, and 10000 from binary to decimal.
- 5. What is a compiler?
- 6. What is source code?
- 7. What is machine language? (Don't just say binary. That's not correct.)
- 8. What is a first generation language? (Don't just say binary. That's not correct.)
- 9. What is a second generation language?
- 10. What is a third generation language? (Explain, don't just give one example.)
- 11. What is an interpreter and how does it differ from a compiler?
- 12. Search the web and find some of the most popular programming languages. List the website(s) you got the information from and what the languages are.
- 13. Look at the job boards and see what languages people are looking for. List the languages and the job board you looked at.
- 14. What is the difference between the ``syntax" and ``semantics" of a language?

15. Pick a piece of technology, other than a computer you use regularly. Briefly describe the hardware and software that run on it.

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