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ITSE-1429, Lab Assignment 1

Answer the following questions:

1. What is Windows 10? (5 points)

Answer: D. An example of an Operating System.

A. The tenth version of the Windows game program.

B. An example of Open Source Software.

C. Normally only installed on Servers.

D. An example of an Operating System.

1. What happens when power is completely removed from your computer? (5 points)

Answer: A. the contents of memory are lost.

A. the contents of memory are lost.

B. the contents of your hard drive are lost.

C. factory option settings are restored.

D. factory option settings are lost.

1. What is the decimal equivalent of the binary number 10101? (5 points)

Answer: C. 21

A. 16

B. 20

C. 21

D. 42

1. What is a computer programming variable? (5 points)

Answer: D. A named location in memory.

A. Output from a program.

B. A piece of information.

C. Four eight-bit bytes.

D. A named location in memory.

1. What is the binary equivalent of the decimal number 57? (5 points)

Answer A. 111001

A. 111001

B. 101010

C. 111010

D. 101101

1. What is the difference between a compiler and an interpreter? (5 points)

A compiler translates a high-level language program into a separate machine language program. An interpreter translates and executes the instructions I a high-level language program. I think of the interpreter as a real time translator and in the moment and the compiler for larger more complex programs.

1. Use the Internet to find out which five (5) programming languages are the most widely used today. Cite a reference for your answer. (5 points)
2. Java
3. C
4. C++
5. C#
6. Python

According to: https://www.tiobe.com/tiobe-index/

1. You will use an IDE to compose, compile, and execute your programs. What does IDE stand for? What is the name of the IDE that we will use in this course? (5 points)

The term IDE stands for Integrated Development Environment

We will be using the IDE included with Python, IDLE

9. When is your first Programming Project Due? (5 points)

September 10th

10. Use the chart in Appendix C to identify the ASCII code for the pound sign (**#**). Express your answer as a complete sentence. (5 points)

The ASCII code for the pound sign (#) is 35

Go to the “**Helpful Links**” section of our Blackboard course and watch “**How Can I Become a Good Programmer?**” (9:33). Express your answers to the following questions in your own words using complete sentences.

11. What was the “Best Early Thing” that Bill Gates (Microsoft) used software to do? (10 points)

He used it to decide when the classes in his school would meet. He also used this to decide what girls were in his class.

12. What was the goal that motivated Jack (created twitter) to learn how to program? (10 points)

He wanted to see a map of a city on his screen and put things on the map.

13. What was one of the first things that Elena (created clothia.com) learned how to make using a computer? (10 points)

She first learned how to make a green circle and a red square appear on the screen.

14. What did the “Blank Wall” resolve into for Bronwen (technical artist @ Valve) when she finally learned a little programming? (10 points)

The wall resolved into a bunch of doors. You open them and light starts to come through.

15. What was one of the things that Drew (created dropbox) said computer programming was like? (10 points)

He says its like playing an instrument or playing a sport. You get the hang of it over time.