

Philip Pesic

Week 5

February 19 2023

Week 5 Q15

It is necessary to be clear when writing conditions in programs because computers/compilers cannot interpret someone's intentions or wants. They simply execute what is told, meaning clarity is vital to writing conditions.

6) You will notice that a block of code is indicated with a set of parentheses { code }. What does it mean to have a

nested if statement inside an if statement? Give an example.

A nested if statement is an if statement that is inside the body or {} of another.

Ex: if (x==1) {if (y==2) {//Executed if both are true};};

7) Do you think most programs have a lot of Alternative sequences, if not.. why not.. if so, why so.

Most programs utilize alternative sequences because of their flexibility and widespread applicability, as mentioned previously.

8) What is the purpose/advantage/benefit of Flow Charting?

Flowcharting allows a programmer to visually represent a sequence and its branches, which can be easier to comprehend than a block of code.

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9) What are the 6 relational operators?
==, <, >, <=, >=, !=
//Equal, less than, greater than, less that or equal to, greater than or equal to, not equal to
10) How is the equal sign in JAVA different then in a math class?
In java, = is used to assign value, whereas == is used to denote equivalency like an = in math
11) What is the purpose of comments ?
Comments are ignored by the compiler and can be used to write notes, explain code, etc.
12) What did Bill Gates say about IF statements?
In his video, bill gates explains if statements, their use and implementation, and how they're vital
to almost every program.
13) What is Single Selection?
Single selection is the term used to describe a single decision a sequence must make, or in other
terms, a single branching path (if)

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14) What is Double Selection?

Double selection is the term used to describe a double decision a sequence must make, or in other terms, 2 choices at a single point (if/else)

15) Integrated studies: Computer Science Alternative Sequences (Branching, Selection, Decision) and Individual

Liberty. Each person has a 'volitional conceptual facility' which they can use to create and set 'criteria' to select

'alternative sequences'. Using their mind, each person can best choose the 'productive paths' of life. Is this

volitional-choice, the basis/foundation, the link for the next level concept of Individual Liberty, freedom?

Alternative selection is essentially the basis for all decisions and destiny. Without it, humans would be unable to think and act. By being able to decide, humans gain the ability to decide their liberty and freedom.