**Programming Reading Guide** Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Reading Assignment: Chapter 3 (Program Statements), p. 117-180

What the content is about (in your own words):

Key Vocabulary (define):

|  |  |
| --- | --- |
| Algorithm |  |
| Pseudocode |  |
| Flow of Control |  |
| Conditional Statement |  |
| Block Statements |  |
| Nested Statements |  |
| Increment Operator |  |
| Decrement Operator |  |

**Key Concepts**:

1. What are the 4 steps in basic software development?
2. Conditional
   1. Complete this diagram of an “If” statement.

Write an example of an “If” statement.

* 1. Write an example of an “If/Else” statement.

1. Loops
   1. Complete this diagram of a “While” statement.
   2. Complete this diagram of a “For” statement.
   3. Write an example of a “For” loop statement.
   4. What is the effective difference between a “While” loop and a “For” loop?
2. How are character values compared?
3. What String class method should be used to compare String objects? Give an example.
4. What example is given in the textbook for comparing floating point values?

**Notable Programming Code**:

Reference information:

Equality & Relational Operators Figure:\_\_\_\_\_\_\_\_\_\_\_page:\_\_\_\_\_\_\_\_\_\_\_

Logical Operators Figure:\_\_\_\_\_\_\_\_\_\_\_page:\_\_\_\_\_\_\_\_\_\_\_

Assignment Operators Figure:\_\_\_\_\_\_\_\_\_\_\_page:\_\_\_\_\_\_\_\_\_\_\_

Assignments:

Multiple Choice: 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8

True/False: 3.1, 3.2, 3.4, 3.5, 3.6, 3.8, 3.9

Short Answer: 3.2, 3.3, 3.4, 3.5, 3.7, 3.8, 3.11, 3.15, 3.16, (3.18, 3.19, 3.20)

Projects: 3.2, 3.5, 3.7, (3.9)

AP Style Multiple Choice: 3.1, 3.3, 3.4