

# Problem Solving and Programming in Business

## Homework 1

*Read chapters 1 – 5 in the text. These will not be covered in class unless you ask specific questions about their contents. Once you've read them, type up the answers to the following questions, print it out, and hand it in at the beginning of the class when it's due.*

1. List and describe the three key features of any object-oriented programming language.
2. Explain the statement “Java supports one language on many platforms”.
3. How does Java accomplish that?
4. Explain the statement “.NET supports many languages on one platform”.
5. How does .NET accomplish that?
6. What is the difference between “data” and “information”?
7. Give an example of a “for” loop.
8. Give an example of a “while” loop.
9. How is an array with 10 elements similar to 10 individual variables?
10. How is an array with 10 elements very much dissimilar to 10 individual variables?
11. What does it mean to say that arrays are “zero-based”? Give an example.

Consider a video store application. Identify and list some of the...

12. Input, business logic, and output processes
13. Sequence (one statement after another) areas
14. Alternation (decision) points (if, case)
15. Repetition (looping) areas