

Chapter 1: Computer Systems

Overview

This chapter is an introduction to basic computer systems and the Java programming language.

Need to Know

The following concepts are important for this chapter:

- describe the relationship between hardware and software
- identify basic computer hardware and explain what it does
- know the steps involved in program compilation and execution

Reading Assignment

Read pages 2 – 41 and “summary of key concepts” on page 45-47 in Java Software Solutions textbook.

Textbook Assignment

Book problems are due at the beginning of the class period before the Chapter 1 test. Problems will be checked for completion. You are encouraged to correct your answers with the solutions key during class, break or lunch.

- Self-Review: 1.1, 1.2, 1.4, 1.5, 1.6, 1.7, 1.8, 1.13, 1.14, 1.15, 1.16
- Multiple Choice: 1.1, 1.6, 1.7, 1.8
- Short Answer: 1.7, 1.8, 1.9

Practicelt! Assignments

Complete the following Chapter 1 PracticeIt! assignments. For each problem, *handwrite* the solution and attach with a printed copy of your “My Problems” page *sorted with newest on top*.

Chapter 1: Introduction to Java Programming

- Self-Check 1.2: binary 1
- Self-Check 1.3: binary 2
- Self-Check 1.6: legal identifiers
- Self-Check 1.16: withoutPrintStatements

Labs

From GitHub, download and extract the files in the zip file “Chapter 1 Lab Files” to your \APCS folder. The lab manual will be included in the directory. After your lab has been stamped, handwrite your solution and attach to this sheet. *You will NOT receive any credit for labs unless you turn in your handwritten solutions.*

Lab	Assignment	Completed
1	Your First Program - HelloWorld <ul style="list-style-type: none">HelloWorld.java	
2	Poem <ul style="list-style-type: none">Poem.java	
3	Comments <ul style="list-style-type: none">Count.java	
4	Program Names <ul style="list-style-type: none">Simple.java	
5	Correcting Syntax Errors <ul style="list-style-type: none">Problems.java	