

# Chapter 1 - Computer Programming

## What is a Computer?

A programmable electronic device designed to accept data, perform prescribed mathematical and logical operations at high speed, and display the results of these operations.

- Essentially: It is any device that stores and processes data.
- The 2 Main components of a computer are
  - Processers - These perform the actual calculations
  - Memory - e.g. RAM which temporarily stores information

## What is a Program

A sequence of instructions on how to perform a specific computation on a computer.

- The Building Blocks of Programming
  - Input: Get data from a connected device
  - Output: Display data on the screen
  - Math: Perform basic mathematical operations
  - Decision: Check for certain conditions and execute the appropriate code.
  - Repetition: Perform an action repeatedly, usually with some variation

## 'Hello World' in Java

- This is how to print 'Hello World' in Java

# A Computer Repair Course Chapter 1 Part

**John G. Stephenson, Bob Cahill**



## **A Computer Repair Course Chapter 1 Part:**

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*Microcomputer Troubleshooting & Repair* John G. Stephenson, Bob Cahill, 1988 *The Complete A+ Guide to PC Repair* Cheryl Ann Schmidt, Delmar Publishers, 2003-04 Accompanying CD ROM includes Adobe Acrobat file ch20rev12 24 pdf which contains review questions for chapter 20 *A+ Exam Prep* Scott Reeves, 2001 Covers all topics needed to pass the A Core and DOS Windows modules the system board diskette drives and other devices hard drive installation and support system customization memory supporting Windows 3x Windows 95 Windows NT multimedia devices networking fundamentals client server architecture hardware and software maintenance and new technology Features real world examples using hands on projects that reinforce key concepts Serves as a comprehensive study guide for both hardware and software technologies that are non vendor specific and includes coverage of the general core concepts module and printer and monitor topics

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*Digital Electronics* Robert D. Thompson, 2001 Approaching the task of learning digital electronics operation from a developmental approach rather than relying on antiquated rote memorization this user friendly guide emphasizes the use of developmental techniques to derive the knowledge necessary to understand operational and design concepts Employs many innovative ideas to simplify understanding of digital concepts enlightening readers with wisdom gained from over thirty years of author s electronics experience in government academia and industry Takes a developmental approach to show how logic gates operate promoting a step by step assimilation of information needed to understand AND OR NAND and NOT gate operations and enabling readers to complete truth tables and draw a gate s output with ease Uses a logical approach in its analysis of Boolean and DeMorgan s theorems and includes methods on how to read a Boolean expression and develop alternate logic gate symbols

**A+ KSO PC Repair and Maintenance Exam Prep** Jean Andrews, 1998 This book covers the material required to pass the A certification exam for computer technicians

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