

# Chapter 1: Intro to Computers, Programs, and Python

## → Introduction

- **Programming:** to create (or develop) software
- **Program:** same as software
  - Software contains the instructions that tell a computer or computerized device what to do
    - Also plays a role in running airplanes, cars, cell phones, and even toasters
- **Programming language:** a language used to create programs
  - Has syntax rules and a set of instructions that can be used to create programs

## → What is a computer?

- A computer includes both hardware and software
  - **Hardware:** physical aspect of the computer that can be seen
  - **Software:** the invisible instructions that control the hardware and make it work
- A computer consists of the following major hardware components
  - **Central processing unit (CPU)**
    - Is the computers brain
    - Retrieves instructions from memory and executes them
    - Has two components
      - Control unit- controls and coordinates the actions of other components
      - arithmetic/logic unit- performs numeric operations and logical operations
    - Built on small silicon semiconductor chips, transistors for processing information
    - Were originally developed with only one core
      - Core- part of the processor that permorms the reading and executing of instructions
      - Now made with multiple cores
    - Speed measured in hertz(hz)
      - Pulses per second
      - Usually stated in megahertz (MHz) where one 1 MHz is 1 million Hz
  - **Memory (main memory)**
    - Consists of an ordered sequence of bytes for storing

# Intro To Programming Exam Study Guide

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## **Table of Contents Intro To Programming Exam Study Guide**

1. Understanding the eBook Intro To Programming Exam Study Guide
  - The Rise of Digital Reading Intro To Programming Exam Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Intro To Programming Exam Study Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Intro To Programming Exam Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Intro To Programming Exam Study Guide
  - Personalized Recommendations
  - Intro To Programming Exam Study Guide User Reviews and Ratings
  - Intro To Programming Exam Study Guide and Bestseller Lists
5. Accessing Intro To Programming Exam Study Guide Free and Paid eBooks
  - Intro To Programming Exam Study Guide Public Domain eBooks
  - Intro To Programming Exam Study Guide eBook Subscription Services

- Intro To Programming Exam Study Guide Budget-Friendly Options
- 6. Navigating Intro To Programming Exam Study Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Intro To Programming Exam Study Guide Compatibility with Devices
  - Intro To Programming Exam Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Intro To Programming Exam Study Guide
  - Highlighting and Note-Taking Intro To Programming Exam Study Guide
  - Interactive Elements Intro To Programming Exam Study Guide
- 8. Staying Engaged with Intro To Programming Exam Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Intro To Programming Exam Study Guide
- 9. Balancing eBooks and Physical Books Intro To Programming Exam Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Intro To Programming Exam Study Guide
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Intro To Programming Exam Study Guide
  - Setting Reading Goals Intro To Programming Exam Study Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Intro To Programming Exam Study Guide
  - Fact-Checking eBook Content of Intro To Programming Exam Study Guide
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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