

COMPUTER PROGRAMMING FUNDAMENTALS

Contents

- Program development life cycle—Problem analysis, program design, program development, program documentation and maintenance
- Algorithm
- Control structures—Sequential, selection (branch or conditional), iterative (loop)
- Flowchart—Flowchart symbols, preparing a flowchart
- Pseudo code—Preparing a pseudo code • Difference between algorithm, flowchart and pseudo code
- Programming paradigms
 - Structured programming—Procedural programming, modular programming
 - Object-oriented programming—Class, object, abstraction, encapsulation, inheritance, polymorphism (static binding, dynamic binding)
 - Aspect-oriented programming—Crosscutting concerns, aspect
- Characteristics of a good program

Why this chapter

A program is a set of instructions written for performing a specific task. However, writing a good program is not a straightforward task. For writing a program, we have to follow the program development life cycle which includes choosing a programming paradigm, and selecting a computer programming language in which to write the program. With practice, you can easily acquire the skill of program writing. The purpose of this chapter is to introduce you to the fundamentals of Computer Programming.

8.1 INTRODUCTION

Computer is an electronic device that accepts data, processes it, and generates the relevant output. It can perform both simple and complex tasks with very high speed and accuracy. However, a computer cannot perform any task—simple or complex, of its own. Computers need to be instructed about “how” the task is to be performed. The set of instructions that instruct the computer about the way the task is to be performed is called a program. A program is required for processing all kind of tasks—simple tasks like addition of two numbers, and complex tasks like gaming etc.

In this chapter, we will discuss the steps that are followed while writing a computer program. A brief description of different programming constructs is also presented. We will also discuss the characteristics of a good program.

8.2 PROGRAM DEVELOPMENT LIFE CYCLE

As stated earlier, a program is needed to instruct the computer about the way a task is to be performed. The instructions in a program have three essential parts:

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Table of Contents Computer Programming Fundamentals Based On The Ib

1. Understanding the eBook Computer Programming Fundamentals Based On The Ib
 - The Rise of Digital Reading Computer Programming Fundamentals Based On The Ib
 - Advantages of eBooks Over Traditional Books
2. Identifying Computer Programming Fundamentals Based On The Ib
 - 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 Computer Programming Fundamentals Based On The Ib
 - User-Friendly Interface
4. Exploring eBook Recommendations from Computer Programming Fundamentals Based On The Ib
 - Personalized Recommendations
 - Computer Programming Fundamentals Based On The Ib User Reviews and Ratings

- Computer Programming Fundamentals Based On The Ib and Bestseller Lists
- 5. Accessing Computer Programming Fundamentals Based On The Ib Free and Paid eBooks
 - Computer Programming Fundamentals Based On The Ib Public Domain eBooks
 - Computer Programming Fundamentals Based On The Ib eBook Subscription Services
 - Computer Programming Fundamentals Based On The Ib Budget-Friendly Options
- 6. Navigating Computer Programming Fundamentals Based On The Ib eBook Formats
 - ePub, PDF, MOBI, and More
 - Computer Programming Fundamentals Based On The Ib Compatibility with Devices
 - Computer Programming Fundamentals Based On The Ib Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Computer Programming Fundamentals Based On The Ib
 - Highlighting and Note-Taking Computer Programming Fundamentals Based On The Ib
 - Interactive Elements Computer Programming Fundamentals Based On The Ib
- 8. Staying Engaged with Computer Programming Fundamentals Based On The Ib
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Computer Programming Fundamentals Based On The Ib
- 9. Balancing eBooks and Physical Books Computer Programming Fundamentals Based On The Ib
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Computer Programming Fundamentals Based On The Ib
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Computer Programming Fundamentals Based On The Ib
 - Setting Reading Goals Computer Programming Fundamentals Based On The Ib
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Computer Programming Fundamentals Based On The Ib
 - Fact-Checking eBook Content of Computer Programming Fundamentals Based On The Ib
 - 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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