Basic Programming Principles

2nd Edition

The ability to clearly specify each step to create a problem-free computer program is a primary skill needed by programmers. *Basic Programming Principles* 2nd edition guides beginner programmers through the challenges of planning a computer program by presenting the text in a simple and straightforward manner. It contains many examples and exercises with explanations and answers that promote understanding. New exercises provide opportunities for students to apply the principles of programming and problem-solving, and learning outcomes highlight the key learning areas. It is an update of *Basic Programming Principles Using Visual Basic.Net* 2nd edition without reference to the Visual Basic.Net.

The book covers:

- general programming concepts and calculations
- understanding problems and planning solutions
- writing algorithms in sequential steps
- the selection control structure
- iteration using a fixed count and do-loop
- functions and procedures
- array processing
- sequential text files and
- introduction to object-oriented programming concepts

The book aims to encourage beginner programmers to see all problems as challenges and to seek all possible ways to solve these problems in the most effective, efficient and economical way.

Carvin Pretorius and **Helen Erasmus** have been in tertiary education for more than 30 years and understand the anxieties of beginner programmers and the abstract reasoning the subject requires. It has always been their passion to encourage students to become logical thinkers and to assist them to develop problem-solving skills. This book lays a solid foundation for students who are being exposed to programming for the first time.

Basic Programming Principles

2nd Edition

CM Pretorius and HG Erasmus

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