Practical Computing with QBASIC

C.K. Ayo

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Practical Computing with QBASIC
Dedication

To a bosom friend
Late Emmanuel Omoniyi Dada (Amuri)
(Titcombe College No. 1458)
Practical Computing with QBASIC

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Contents

Dedication
Foreword
Preface

1. Computer Software
   Introduction; Categories of Software; Software; System; Application and User software, Software suites; Software generations, Language translators; Review Questions.

2. File Organisation and Peripheral Devices
   Introduction; Types of file; Files activities; File operations; Types of file organisation; Auxiliary storage media; Review Questions.

3. Programming Aids and Techniques
   Steps in program development; Programming aids; Structured programming; Top-down design and modular Programming; Top-down and bottom-up programming, Subprogram and procedure; Review Questions.

4. Basic Programming
   Overview; Variable names; Data names; Constants / Literals; Basic standard functions;
Arithmetic operators; Relational operators; REM, LET and END Statement; INPUT/OUTPUT statements; Control statements; Initialization, Counters and accumulators; Loop; Subscripted variables, Program implementation; Programming examples.

5. Graphics and String Processing

Introduction; Graphical representations; String processing (ASCII, CHR, STR, MID, RIGHT etc); User defined functions.

6. Subroutines and File Processing

Subroutines; GOSUB, ON-GOSUB, SELECT CASE DO-LOOP; Further Looping Statements; File processing; Sequential files; Random files; Further programming examples.

Review Exercises

Appendix: BASIC Program for the National Anthem and Flag

Bibliography

Index
Foreword

There is no doubt that quite a number of books and materials have been published on BASIC Programming. However, this book, Practical Computing With QBASIC is not just a book on BASIC programming. It is refreshingly different in a number of ways.

The author has been down-to-earth in his approach to writing the book. The language of expression is simple and clear even to beginners or learners of programming. The examples contained in the book are well domesticated, thereby enhancing understanding of the subject matter. The author has been very generous in the use of examples to illustrate concepts and features of the language, an approach that is certain to aid teaching and learning.

Another fine quality of the book is that it does not only treat language constructs and features, but also effectively exposes readers to the techniques and methodologies of writing programs. Those who are hoping to pick up the tricks, art and science of elementary programming, will find the book very useful.

I congratulate the author for once again putting his experience in the Information Technology field in print for the benefit of the society and for posterity. I therefore commend the book to all students of programming and programming languages.

Dr. Charles O. Uwadia
University of Lagos
July 2003
Preface

This book is a product of over nineteen years of research and teaching in the tertiary institutions. My interactions with students made it expedient to address a fundamental problem in the field of programming, mostly among management and social science students. Nonetheless, it would help the computer science students lay solid foundation in programming.

The book addresses programming aids and techniques, general BASIC programming, graphics and string processing, functions and subroutine as well as file processing. It is tailored towards the course “BASIC Programming” in tertiary institutions. The book is designed to enable students solve social, scientific and commercial problems. It is therefore recommended for all students.

C. K. Ayo
Index

Accumulators, 70, 84, 104
Activity ratio, 24, 25
Algorithm development see Algorithm
Alphanumeric string, 121
American Standard Code for Information Interchange see ASCII Code
Application Software, 9, 12
Arithmetic operators, 61
ASCII Code, 27, 98
Assembler, 10, 16
Assembly language, 14
Auxiliary storage media, 27

BASICA, 58
BASIC interpreter, 57, 58
language, 60, 62
looping, 70
notations, 61
program, 57, 62, 63, 91, 109, 115, 121,
programming, viii, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77,
79, 81, 83, 85, 87, 89
standard functions, 60
Beginner’s All Purpose Symbolic and Instruction Code see BASIC program
Billing system, 14

CD-ROM, 30, 31, 35
CDs, 31
Character function, 98
User Interface (CU), 12
CHR$ see character function
Circle statements, 95
Close Statement, 113, 119
COBOL, 15, 42
Code generation, 17
Colour switch, 92
Compact Disk Read Only Memory see CD-ROM
Compiler, 10, 14, 16, 17
Computer Output to Microfilm (COM), 31
on Microfiche, 32
Computer programmers, 47
science, viii, 40
software, 9, 13, 15, 17
system, 9, 47
Consistency check, 39
Control statements, 67, 103
Copy update, 21
utilities, 11
Corel Perfect Office, 13
CPU, 9
cursor, 96
Data Analysis and validation, 37, 38
base, 12, 15
packages, 15
software, 13
files, 11, 19, 111
flowchart, 44, 45
diagram, 45, 46
validation, 39
Date check, 40
names, 59
Debuggers, 11
Debugging, 17, 43
Dimension statement, 72
Direct Access Method (DAM), 26
Directional commands, 96
disk file, 24
Operating System see DOS
Display graphics, 92
DO... Loop Statement, 110
DOS, 57, 58
draw statement, 96
dumping, 23
dump utilities, 11
Edit Module, 135
Editors, 11
Emulators, 12
Examination Processing System, 14
FIELD Statement, 119
file, 19
maintenance utilities, 11
name, 73
operation, 20
organization and peripheral devices, 19, 21, 23, 25, 27-34
Fixed length records, 111
Floppy disk, 29
Flow chart, 37, 41, 42, 44, 75, 76, 77, 80, 88
Flowcharting see flow chart
Formatting utilities, 11
Formatted output, 66
FORTRAN, 42
Garbage-in-Garbage-out (GiGo), 39
Geographical Information System (GIS), 31
GET Statement, 120
GOSUB Statement, 103, 104, 106, 107, 108
Label statement see
GOSUB statement
GO TO Statement, 51, 67, 69, 124
Graphical form, 93
representation, 93
User Interface (GUI), 12
Graphical and String processing, 91, 93, 95, 97, 99, 101
applications, 91
form, 93
packages, 9
presentation software, 13
Hardware subsystem, 9
Hierarchical Input Processing and Output Chart (HIPO), 43, 111, 48, 58
Hierarchical/Structure Chart, 44, 56
Hollerith, 27
ICONS, 12
Index Sequel (ISAM), 13
Initialization
In-place update
Input/Output specialization statements
INPUT/READ
Integers, 69
Interpreter,
Inter Record
Interrogation
Inventory System
Inverted file
Keyboard, 59
Keywords, 5
Language Types
Laser beam
Left Function
LEN (Length)
LET Statement
Library category
Line statement
Logical record
Loop UNTIL
WHILE
Looping statements
loops, 45, 7
Lotus Smart
LSET and
Machine code
Magnetic disk
Ink Character
(MICR,
ICONS, 12
Index Sequential Access Method (ISAM), 25
Initialization, 69
In-place update, 21
Input/Output devices, 10, 25, 112
specifications, 40
statements, 63, 119
statement, 63, 66, 77, 113, 119
INPUT/READ statements, 66
Integers, 69, 109
Interpreter, 16, 17, 63, 72
Inter Record Gap (IRG), 29
Interrogation, 20
Inventory System, 14
Inverted file, 26
Keyboard, 9, 63
Keywords, 59
Language Translators, 10
Laser beam, 29
Left Function, 99
LEN (Length function), 100, 101
LET Statement, 62
Library catalogues, 30
Line statement, 93
Logical records, 111
Loop UNTIL, 110, 111
WHILE, 110, 111
Looping statements, 109
Loops, 45, 70, 110
Lotus Smart Suite, 13
LSET and RSET statements, 120
Machine code, 16
language, 14
Magnetic disk, 25, 26, 30, 35, 46
Ink Character Recognition (MICR), 32, 34
surface, 29, 30
tape, 28, 29, 35, 46
Main memory (RAM), 10, 111
Maintenance (amendment), 22
Master file, 21, 22, 25
Memory Space, 14, 15
Menu Bar, 73, 74
Design, 105
Microfiche, 32, 33
Microfilm, 31, 33,
Microsoft Office, 13
products, 12
MIDS (middle function), 100
Modular programming, 52, 53, 54, 56
Monitor, 9, 91
Mouse, 9
Multiple-branching logic, 107
Non-Numeric literals, 60
Novel/Corel Perfect Office, 13
Numeric Data Check, 39, 65
Names, 59
Literals, 60
Object code, 17
program, 17
Offline Storage, 46
Optical Character Reader (OCR), 35
Mark Reader (OMR), 35
Output device, 11, 54, 97
statement, 65
Overlay, 21
Paper tape, 27, 46
PASCAL, 15
Personal diary software, 13
Photoelectric device, 27, 28
Pixel, 92, 96
Problem analysis, 37, 38
   solving procedure, 40
Procedure, 55, 56
Processing, 21, 22, 25, 33
Program, 9, 16, 17, 28, 37, 39, 43, 47,
   56, 60, 76, 77, 78, 79, 80, 83, 84,
   85, 86, 87, 88, 104, 105, 108, 109,
   116, 118,
   coding, 37, 42
   development, 37
   documentation, 38, 43
   flow chart, 42, 44, 47
   implementation, 73
   writing, 37
Programming, viii, 37, 50, 51, 53,
   56, 58, 59
   aids and techniques, 37, 39, 41,
   43, 45, 47, 51, 53
   language, 14, 42, 59, 91, 101
   logic, 45, 47
   random files, 118
   sequential files, 112
   technique, 51
Pseudocodes, 44, 56
Punched cards, 27, 35
Purging, 22, 35

QBASIC, 58, 73, 108
   Icon, 73
Quadratic equation, 41, 86

Random file, 26, 111, 112,
   Range check, 39
READ, DATA Statement, 64, 65, 66
Reference file, 20, 35
Relational operation, 62
REM, 55, 62, 73, 88, 89, 106, 109,
   110, 117, 124,
   Subroutine, 107
Reserved words, 59

RESTORE statement, 64, 66
RETURN Statement, 104,
   105, 107
Right function, 100
RSET Statement, 120, 121

Screen, 91-95, 97
   Mode, 91, 92
Secondary storage, 10
SELECT CASE Statement,
   107, 108
Serial file, 23, 25
Service Programs, 10
Sequential Access Method (SAM),
   24, 25
Sequential file, 24, 35, 111
   machine, 57
Short data entries, 111
Software generations, 14
   subsystem, 9
   suites, 13, 18
Sort/merge utilities, 11
Spreadsheet, 9, 12, 15
Step-by-step-logic, 47
String expression, 96
   Function (STR$), 99
   Processing, 98
Structured Programming, 50,
   51, 56, 68
Subprogram, 54
Subroutine, 55, 56, 103, 105, 107
   and file processing, 103,
   105, 107, 109, 111, 113,
   115, 117, 119, 121, 123, 125,
   Subscripted Varieties, 72
TAN, 61
   Top-down design, 52, 53, 54, 56
   programming, 56
Transaction of Files, 20, 22
Turbo PROLOG, 15

Updating,
   User-defined software
   Utility/Service

Value Function
   Variable le
   names
VBASIC, 1
VGA adapt
Updating, 21
User-defined functions (UDF), 101
software, 9, 14
Utility/Service Programs, 10

Value Function (STR$), 98
Variable length records, 111
names, 59, 65
VBASIC, 15
VGA adapter, 91

Visual Table of Contents (VTOC), 48, 49, 50

WHILE...WEND Statement, 109
Windows '95 '98 NT, 10
WordPerfect, 12
processing, 9, 12
Word processing Software, 13
WordStar, 12
Working file, 20, 35
This book is a thorough and practical overview of fundamentals of Information Technology (IT). It provides broad coverage, and a basic understanding of trends and applications of IT in everyday use. Topics include: Trends in hardware and software; networking and internet; computer crimes and hazards; IT and the business world; Windows 95 and 98; Office 97 and 2000; systems concept, development cycle and Management Information System (MIS), etc.

IT professionals and non-professionals alike will find the book essential. Especially recommended to those preparing for examinations of various professional bodies that require that candidates study courses in computer science or information technology, as applied to banking, insurance, marketing, accountancy, human resources and materials management, and general administration.

"The presentation is such that the topics covered are very current and quite contemporary. The book is highly rated and favourably recommended to science and business studies students."

— Prof. Adetokunbo B. Sofoluwe

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