

# OBJECT ORIENTED PROGRAMMING

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# PREFACE

The importance of “OBJECT ORIENTED PROGRAMMING” is well known in various Engineering fields. This book is designed for those readers who wish to start learning to program in an object-oriented programming language.

It has been designed primarily as a first programming text. It is also suitable for those who already have some experience with another programming language, and who now wish to move on to an object-oriented one.

Indeed, much of the material is based on courses delivered by the author to students with a wide range of both non-programming and programming backgrounds. Emphasis is placed on developing a good programming technique and demonstrating when and how to use the more advanced features of C++ through the development of realistic programming tools and classes.

We have divided this book into five chapters, where the first four chapters explain the basic concepts with constructors, Destructors and working of functions in templates using polymorphism and inheritance and the last chapter explains the I/O Streams.

The main aim of this book is to make the students understand the concepts easily. This book makes the understanding of subject in a clear way and makes it more interesting.

 V. Deepa

# ACKNOWLEDGEMENT

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We would like to express a special note of gratitude to the fantastic editing team of **VSRD Academic Publishing (A Division of Visual Soft India Private Limited)** in releasing this book.

Finally, this work would not have been possible without the love and support of **our colleagues, family members and friends**. We are extremely grateful to one and all.

 V. Deepa

 A.S. Subaira

 P.S. Latha



## Thirumigu. M.G.BHARATHKUMAR

Founder & Chairman, Mahendra Educational Trust

### Forward

*"Computing in their capacity as a tool, computers will be but a ripple on the surface of our culture. In their capacity as intellectual challenge, they are without precedent in the cultural history of mankind".*

-Edsger Dijkstra, 1972 Turing Award Lecture

Computer Science as an academic discipline has evolved to embrace a set of intellectual challenges on a par with other sciences. This fact, combined with the undeniable impact of computer science on the modern world, demands an introductory college text book comparable with commonly-used textbooks in physics, chemistry, or biology. Accordingly, this book is intended to meet the need for an introductory college text in computer science. The distinctive feature of the book is that it has broader coverage of the field than is found in many texts that are currently in use.

I am delighted to note that the Faculty members of Computer Science and Engineering of Mahendra College of Engineering, Mrs. V Deepa, Mrs. A.S. Subaira and Mrs. P.S. Latha have written this book on "OBJECT ORIENTED PROGRAMMING" nicely, for the benefit of student community. They have accomplished this goal, and I trust their work will encourage and enlighten all who have an interest in computers, computer science and the growing role on information and computer technology in the modern world.

**M.G.BHARATHKUMAR**

Founder & Chairman, Mahendra Educational Trust

**Dedicated  
to  
Our Family, Friends &  
Students**

# CONTENTS

## CHAPTER 1

|                                                |          |
|------------------------------------------------|----------|
| <b>INTRODUCTION.....</b>                       | <b>1</b> |
| 1.1 OBJECT ORIENTED PROGRAMMING CONCEPTS ..... | 3        |
| 1.2 BASICS OF C++ .....                        | 5        |
| 1.3 MANIPULATORS.....                          | 13       |
| 1.4 TYPE CONVERSION .....                      | 17       |
| 1.5 FUNCTIONS.....                             | 18       |
| 1.6 DEFAULT ARGUMENTS.....                     | 28       |
| 1.7 INLINE FUNCTIONS .....                     | 29       |
| 1.8 FUNCTION OVERLOADING.....                  | 30       |
| 1.9 CLASSES .....                              | 31       |

## CHAPTER 2

|                                                                |           |
|----------------------------------------------------------------|-----------|
| <b>CONSTRUCTORS AND DESTRUCTORS .....</b>                      | <b>45</b> |
| 2.1 CONSTRUCTOR .....                                          | 47        |
| 2.2 MULTIPLE CONSTRUCTOR (OR) CONSTRUCTOR<br>OVERLOADING ..... | 50        |
| 2.3 CONSTRUCTOR WITH DEFAULT ARGUMENTS .....                   | 51        |
| 2.4 OPERATOR OVERLOADING.....                                  | 53        |
| 2.5 OPERATOR OVERLOADING USING A FRIEND FUNCTION .....         | 55        |
| 2.6 USING A FRIEND TO OVERLOAD ++ OR -- .....                  | 57        |
| 2.7 OVERLOADING NEW AND DELETE .....                           | 59        |

## CHAPTER 3

|                                                      |           |
|------------------------------------------------------|-----------|
| <b>FUNCTIONS AND CLASS TEMPLATES.....</b>            | <b>63</b> |
| 3.1 C++ TEMPLATE FUNCTIONS - DETAILS.....            | 65        |
| 3.2 EXCEPTION HANDLING FUNDAMENTALS.....             | 69        |
| 3.3 CATCHING ALL EXCEPTIONS .....                    | 73        |
| 3.4 RETHROWING AN EXCEPTION.....                     | 74        |
| 3.5 EXCEPTION SPECIFICATIONS.....                    | 75        |
| 3.6 UNDERSTANDING TERMINATE() AND UNEXPECTED() ..... | 76        |
| 3.7 THE UNCAUGHT_EXCEPTION() FUNCTION .....          | 77        |

## **CHAPTER 4**

### **INHERITANCE AND POLYMORPHISM..... 79**

|     |                                         |     |
|-----|-----------------------------------------|-----|
| 4.1 | INTRODUCTION .....                      | 81  |
| 4.2 | INHERITANCE.....                        | 83  |
| 4.3 | USING CONSTRUCTORS IN INHERITANCE ..... | 93  |
| 4.4 | VIRTUAL FUNCTIONS.....                  | 104 |
| 4.5 | PURE VIRTUAL FUNCTIONS.....             | 107 |
| 4.6 | ABSTRACT CLASSES.....                   | 109 |
| 4.7 | OPERATOR OVERLOADING .....              | 112 |

## **CHAPTER 5**

### **STREAMS AND FORMATTED I/O .....123**

|     |                                       |     |
|-----|---------------------------------------|-----|
| 5.1 | C++ STREAMS.....                      | 125 |
| 5.2 | USING MANIPULATORS TO FORMAT I/O..... | 130 |
| 5.3 | C++ FILE I/O .....                    | 133 |
| 5.4 | RANDOM ACCESS .....                   | 139 |
| 5.5 | STL CONTAINER CLASS INTRODUCTION..... | 142 |
| 5.6 | NAMESPACES .....                      | 155 |
| 5.7 | THE STD NAMESPACE.....                | 160 |
| 5.8 | THE STRING CLASS.....                 | 161 |