



# C++

# Programming Step-by-Step

Asadullah Shah



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INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA

# **C++ PROGRAMMING: STEP BY STEP**

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**Editors**

Asadullah Shah



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# CONTENTS

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<b>DEDICATION</b>	iii
<b>PREFACE</b>	viii
<b>ACKNOWLEDGEMENT</b>	ix
<b>1. INTRODUCTION</b>	
<i>Asadullah Shah and Assadullah Shaikh</i> .....	1
<b>2. ARITHMETIC EXPRESSIONS AND DATA TYPES IN C++</b>	
<i>Asadullah Shah and Assadullah Shaikh</i> .....	5
<b>3. SENDING THE OUTPUT TO A PRINT FILE</b>	
<i>Asadullah Shah and Assadullah Shaikh</i> .....	11
<b>4. DECISION MAKING: IF-ELSE STATEMENTS AND RELATIONAL OPERATORS</b>	
<i>Asadullah Shah and Assadullah Shaikh</i> .....	17
<b>5. LOGICAL OPERATORS AND SWITCH STATEMENTS</b>	
<i>Asadullah Shah and Assadullah Shaikh</i> .....	25
<b>6. REVIEW, SUMMARY &amp; BUILDING SKILL</b>	
<i>Asadullah Shah and Khamran Khowaza</i> .....	33
<b>7. ITERATIVE STRUCTURES</b>	
<i>Asadullah Shah and Khamran Khowaza</i> .....	39

<b>8. THE FOR LOOP</b>	
<i>Asadullah Shah and Khamran Khowaza</i> .....	49
<b>9. THE DO-WHILE LOOP</b>	
<i>Asadullah Shah and Khamran Khowaza</i> .....	55
<b>10. REVIEW OF VARIABLES, FORMATTING</b>	
<i>Asadullah Shah and Khamran Khowaza</i> .....	59
<b>11. REVIEW OF ITERATIVE STRUCTURES</b>	
<i>Asadullah Shah and Sumbul Khowaza</i> .....	63
<b>12. POST-TEST AND NESTED LOOPS</b>	
<i>Asadullah Shah and Sumbul Khowaza</i> .....	73
<b>13. FUNCTIONS</b>	
<i>Asadullah Shah and Sumbul Khowaza</i> .....	83
<b>14. CALL-BY-VALUE AND REFERENCE</b>	
<i>Asadullah Shah and Sumbul Khowaza</i> .....	91
<b>15. MORE ON FUNCTIONS</b>	
<i>Asadullah Shah and Sumbul Khowaza</i> .....	99
<b>16. STRUCTURES (STRUCT) AND FILES</b>	
<i>Asadullah Shah and Muniba Shaikh</i> .....	111
<b>17. ARRAYS</b>	
<i>Asadullah Shah and Muniba Shaikh</i> .....	119
<b>18. EXERCISE OF ARRAY</b>	
<i>Asadullah Shah and Muniba Shaikh</i> .....	127

<b>19. READ DATA FROM A FILE</b>	
<i>Asadullah Shah and Muniba Shaikh</i> .....	137
<b>20. OBJECT ORIENTED PROGRAMMING</b>	
<i>Asadullah Shah and Muniba Shaikh</i> .....	143
<b>21. SELECTION SORTING</b>	
<i>Asadullah Shah and Syed Ifthar Ali</i> .....	153
<b>22. BUBBLE SORT ALGORITHM</b>	
<i>Asadullah Shah and Syed Ifthar Ali</i> .....	161
<b>23. REVIEW OF ARRAYS</b>	
<i>Asadullah Shah and Syed Ifthar Ali</i> .....	167
<b>24. LINEAR SEARCHING</b>	
<i>Asadullah Shah and Syed Ifthar Ali</i> .....	179
<b>25. BINARY SEARCH</b>	
<i>Asadullah Shah and Syed Ifthar Ali</i> .....	189
<b>26. VECTOR CLASS</b>	
<i>Asadullah Shah and Ejaz Ahmed</i> .....	199
<b>27. POINTERS</b>	
<i>Asadullah Shah and Ejaz Ahmed</i> .....	203
<b>28. FUNCTION POINTERS</b>	
<i>Asadullah Shah and Ejaz Ahmed</i> .....	213
<b>29. POLYMORPHISM AND VIRTUAL FUNCTIONS</b>	
<i>Asadullah Shah and Ejaz Ahmed</i> .....	219

<b>30. C++ REFERENCES</b>	
<i>Asadullah Shah and Ejaz Ahmed</i> .....	223
<b>31. CONST CORRECTNESS</b>	
<i>Asadullah Shah and Osama Mahfooz</i> .....	229
<b>32. MORE ON CONST KEYWORDS</b>	
<i>Asadullah Shah and Osama Mahfooz</i> .....	235
<b>33. GOTO STATEMENT</b>	
<i>Asadullah Shah and Osama Mahfooz</i> .....	241
<b>34. HANDLING ERRORS IN C++</b>	
<i>Asadullah Shah and Osama Mahfooz</i> .....	249
<b>35. STATIC: THE MULTIPURPOSE KEYWORD</b>	
<i>Asadullah Shah and Osama Mahfooz</i> .....	253

# 7. ITERATIVE STRUCTURES

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## Abstract

Looping in programming is an environment or conditions in which certain part of the program repeats for a number of times say for example 100 times. The loop can have its own control within itself to execute instruction in an order of assignment. In this chapter students will learn C++ programming looping formats.

## 7.1 Understating the Loops

Suppose you want to display numbers 1 to 50 on the screen. You can do this by two ways, based on what you studies so far, you will have to write one hundred **cout** statements, it is the simplest and the most crude way of doing the task. Think about it, all you are doing is adding one to the previous number and displaying it over and over again until 50, the last number has been displayed. Let us write the steps to do it.

Step 1: Number gets 1.

Step 2: Display the number

Step 3: Add one to it

Step 4: Repeat these two statements Step 2 & Step 3

Step 5: Stop when 50 has been displayed.