



# C++

# Programming Step-by-Step



Asadullah Shah



IIUM PRESS

INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA



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

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**Editors**

Asadullah Shah



**IIUM Press**

Published by:  
IIUM Press  
International Islamic University Malaysia

First Edition, 2011  
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Perpustakaan Negara Malaysia

Cataloguing-in-Publication Data

Bibliography p.  
Includes Index  
ISBN

ISBN: 978-967-418-090-4

Member of Majlis Penerbitan Ilmiah Malaysia - MAPIM  
(Malaysian Scholarly Publishing Council)

Printed by :  
**IIUM PRINTING SDN. BHD.**  
No. 1, Jalan Industri Batu Caves 1/3  
**Taman Perindustrian Batu Caves**  
Batu Caves Centre Point  
68100 Batu Caves  
Selangor Darul Ehsan

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# 34. HANDLING ERRORS IN C++

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## Abstract

The error in programming can be of a few types, syntax errors, semantic errors or logical errors. Any program with errors will produce no output until these errors are ratified and execution of program flows logically correct. In most programming languages these errors are displayed during execution time. However C++ programming use it exception handling system. An exception is a situation in which a program has an unexpected circumstance that the section of code containing the problem is not explicitly designed to handle.

## 34.1 Introduction

One benefit of C++ over C is its exception handling system. In C++, exception handling is useful because it makes it easy to separate the error handling code from the code written to handle the tasks of the program. Doing so makes reading and writing the code easier. The program given in Figure 34.1 shows this phenomenon.

## 34.2 Try and catch Statements

The function generating the error can 'throw' an exception when error occurs. For example, take a sample function that does division: