

Object-oriented Programming C++

OVERVIEW

OBJECT-ORIENTED PROGRAMMING

ENVIRONMENT SETUP

WINDOWS INSTALLATION

BASIC SYNTAX

COMPILE & EXECUTE C++
PROGRAM

COMMENTS IN C++

HELLO WORLD

DATA TYPES

BASIC TYPE

VARIABLE TYPES

VARIABLE TYPE

VARIABLE DECLARATION

VARIABLE SCOPE

LOCAL VARIABLES

GLOBAL VARIABLES

INITIALIZING LOCAL AND GLOBAL
VARIABLES

CONSTANTS/LITERALS

INTEGER LITERALS

FLOATING-POINT LITERALS

BOOLEAN LITERALS

CHARACTER LITERALS

MODIFIER TYPES

DATA TYPE

STORAGE CLASSES

AUTO STORAGE CLASS

REGISTER STORAGE CLASS

STATIC STORAGE CLASS

EXTERN STORAGE CLASS

OPERATORS

ARITHMETIC OPERATORS

RELATIONAL OPERATORS

LOGICAL OPERATORS

BITWISE OPERATORS

ASSIGNMENT OPERATORS

MISC OPERATORS

OPERATORS PRECEDENCE IN C++

LOOP TYPES

WHILE LOOP

FOR LOOP

DO...WHILE LOOP

NESTED LOOPS

DECISION-MAKING STATEMENTS

IF STATEMENT

IF...ELSE STATEMENT

SWITCH STATEMENT

NESTED IF STATEMENT

NESTED SWITCH STATEMENTS

FUNCTIONS

RETURN TYPE

FUNCTION NAME

PARAMETERS

FUNCTION DECLARATIONS

CALLING A FUNCTION

NUMBERS

MATH OPERATIONS IN C++

ARRAYS

DECLARING ARRAYS

INITIALIZING ARRAYS

ACCESSING ARRAY ELEMENTS

MULTI-DIMENSIONAL ARRAYS

TWO-DIMENSIONAL ARRAYS

POINTER TO AN ARRAY

STRINGS

THE C-STYLE CHARACTER STRING

THE STRING CLASS TYPE
INTRODUCED WITH STANDARD
C++.

POINTERS

POINTERS IN C++

NULL POINTERS

POINTER ARITHMETIC

INCREMENTING A POINTER

DECREMENTING A POINTER

POINTER COMPARISONS

POINTERS VS ARRAYS

PASSING POINTERS TO FUNCTION

REFERENCES

REFERENCES VS POINTERS

CREATING REFERENCES IN C++

REFERENCES AS PARAMETERS

REFERENCE AS RETURN VALUE

DATE AND TIME

CURRENT DATE AND TIME

BASIC INPUT/OUTPUT

THE STANDARD OUTPUT STREAM
(COUT)

THE STANDARD INPUT STREAM
(CIN)

THE STANDARD ERROR STREAM
(CERR)

THE STANDARD LOG STREAM
(CLOG)

DATA STRUCTURES

DEFINING A STRUCTURE

STRUCTURES AS FUNCTION
ARGUMENTS

POINTERS TO STRUCTURES

CLASSES AND OBJECTS

C++ CLASS DEFINITIONS

DEFINE C++ OBJECTS

CLASS MEMBER FUNCTIONS

CLASS ACCESS MODIFIERS

CONSTRUCTOR & DESTRUCTOR

PARAMETERIZED CONSTRUCTOR

THE CLASS DESTRUCTOR

COPY CONSTRUCTOR

FRIEND FUNCTIONS

INHERITANCE

BASE & DERIVED CLASSES

CONTROL AND INHERITANCE

OVERLOADING

OPERATORS OVERLOADING IN
C++

OVERLOADABLE/NON-
OVERLOADABLE

OPERATOR OVERLOADING

UNARY OPERATORS OVERLOADING

BINARY OVERLOADING

RELATIONAL OPERATORS
OVERLOADING

INPUT/OUTPUT OPERATORS
OVERLOADING

++ AND -- OPERATORS
OVERLOADING

ASSIGNMENT OPERATORS
OVERLOADING

POLYMORPHISM

VIRTUAL FUNCTION

PURE VIRTUAL FUNCTIONS

WEB PROGRAMMING

WHAT IS CGI?

CGI ARCHITECTURE DIAGRAM

WEB SERVER CONFIGURATION

HTTP HEADER

CGI ENVIRONMENT VARIABLES

POST METHODS

USING COOKIES IN CGI

SETTING UP COOKIES