



PANYA TECHNOLOGIES

Technology to Live...

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C++ Programming

- ✦ Introduction to C++
- ✦ Creating a project
- ✦ Writing, compiling and running a program
- ✦ Variables and data types
- ✦ Expressions
- ✦ Constants
- ✦ Operators
- ✦ Type conversions
- ✦ Looping constructs: while, do...while, for loops
- ✦ If...else statements
- ✦ Switch/case construct
- ✦ Functions
- ✦ Passing arguments
- ✦ Function prototyping
- ✦ Default argument initializes
- ✦ Inline functions
- ✦ Arrays
- ✦ Array initialization
- ✦ Multi-dimensional arrays
- ✦ Character arrays
- ✦ Working with character strings
- ✦ STORAGE CLASSES
- ✦ Global variables
- ✦ Pointers
- ✦ Pointer and arrays
- ✦ Pointers to character strings
- ✦ Arrays of pointers
- ✦ Memory slicing
- ✦ Pointers to functions
- ✦ Enumeration types
- ✦ C++ classes
- ✦ Data members and member functions
- ✦ Creating objects
- ✦ The new and delete operators
- ✦ Friends to a class
- ✦ Class initialization
- ✦ Reference types
- ✦ Reference type arguments
- ✦ Function overloading
- ✦ Operator overloading
- ✦ Copy constructor
- ✦ Assignment operator
- ✦ Template classes
- ✦ Static class members
- ✦ File streams
- ✦ Inheritance
- ✦ Base classes and derived classes
- ✦ Inherited member access
- ✦ Base class initialization
- ✦ Protected members of a class
- ✦ Virtual functions
- ✦ Virtual destructors
- ✦ Virtual base classes
- ✦ Virtual base class member access
- ✦ Constructor and destructor ordering
- ✦ Exception handling
- ✦ try...throw...catch block
- ✦ Nested catch handlers