```
Welcome to CoreCode Programming Academy's
Masterclass in C++ - Batch 24
1) Modern Object Oriented Programming Language - In Depth
   i) Syntax
   ii) Semantics/Use Cases
   iii) Memory Management
   class Interface{
      public:
          virtual void f() = 0;
   };
   class Implementation: public Interface{
      public:
          void f() { std::cout << "In Implementation::f()" << std::endl; }</pre>
   };
   int main(void)
      Interface* pInterface = new Implementation;
      pInterface->f();
      delete pInterface;
      pInterface = 0;
      return 0;
   }
   iv) Type System Analysis
2) Programming Logic - Data Structure And Algorithms
   Four Linked Lists, Stack, Queue, Deque, Priority Queue, Graph, Tree
   (Generic Versions)
3) Domain Specific Libraries
   STL
   GUI PROGRAMMING Using Qt
Programming Language:
   a) Procedural Programming b) Object Based Programming
   c) Object Oriented Programming d) Generic Programming
   e) Functional Programming f) Aspect Oriented Programming
   g) Metaprogramming
```