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Module 6 - Multiple Inheritance in C Plus Plus

Inheritance in C Plus Plus

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Multiple Inheritance

In multiple inheritance, a single derived class inherits from multiple base classes.

Syntax:

```
class Base1 {  
    // Base1 class members  
};  
  
class Base2 {  
    // Base2 class members  
};  
  
class Derived : public Base1, public Base2 {  
    // Derived class members  
};
```

Solved Example:

```
#include <iostream>  
using namespace std;  
  
class A {  
public:  
    void displayA() {  
        cout << "I am class A!" << endl;  
    }  
};  
  
class B {  
public:  
    void displayB() {  
        cout << "I am class B!" << endl;  
    }  
};  
  
class C : public A, public B {  
public:  
    void displayC() {  
        cout << "I am class C!" << endl;  
    }  
};
```

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};

```
int main() {  
    C obj;  
    obj.displayA();  
    obj.displayB();  
    obj.displayC();  
    return 0;  
}
```

}

When to Use:

- A class needs functionality from multiple sources that do not have a common base class.
- You want to integrate distinct features from different base classes into one derived class.

Example Applications:

- **Media Players:**
 - Combining AudioPlayer and VideoPlayer into MediaPlayer.

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