**Content 35**

Inheritance Syntax And Visiblity mode In C++

**Syntax Of Inheritance:**

class {{derived-class-name}} : {{visibility-mode}} {{base-class-name}}

{

class members/methods/etc...

}

**Points About Inheritance:**

1. Default visibility mode is private

2. Public Visibility Mode: Public members of the base class becomes Public members of the derived class

3. Private Visibility Mode: Public members of the base class becomes Private members of the derived class

4. Private members are never inherited.

**Code:**

#include <iostream>

using namespace std;

// base class

class employee

{

public:

    int Id;

    float salary;

    employee() {}

    employee(int n1)

    {

        Id = n1;

        salary = 14.5;

    }

};

// creating a new class from base class

class programmer : public employee

{

public:

    int P\_languages;

    programmer(int n2)

    {

        Id = n2;

        P\_languages = 9;

    }

};

int main()

{

    employee e1(2), e2(6);

    cout << e1.Id << endl;

    cout << e2.Id << endl;

    cout << e1.salary << endl;

    cout << e2.salary << endl;

    programmer p1(4);

    cout << p1.Id << endl;

    cout << p1.P\_languages << endl;

    return 0;

}

**Output:**

2

6

14.5

14.5

4

9