A derived class may inherit things from more than one parent class. This is different from inheriting from a chain of classes, as it inherits from more than one class at the same level (parent). Therefore, inheritance can include more than one chain. This is shown in the following code snippet:

#include <iostream>

using namespace std;

//=====================================================

class Date

{

protected:

int day;

int month;

int year;

public:

Date(){day=month=year=0;} //constructor

~Date(){cout<<"object destroyed date"<<endl;} //destructor

void display()

{cout<<"the date :" <<month<<"/"<<day<<"/"<<year<<endl;}

void set(int d, int m, int y){day=d;month=m;year=y;}

};

class Time

{

protected:

int hour;

int minute;

int second;

public:

Time(){hour=minute=second=0;} //constructor

~Time(){cout<<"object destroyed Time "<<endl;} //destructor

void display()

// displays the time on the screen

{cout <<"the time is : " << hour<<":"<<minute<<":"<<second<<endl;}

void set(int h, int m,int s)

{hour=h; minute=m; second=s ;}

};

1. Create a class that inherit **publicly** from both **Date** and **Time** Class and named as **DateAndTime**
2. Define the **DateAndTime** class member as follows

String day\_night; //for am or pm

public:

void display(); // prints date and time

1. In main

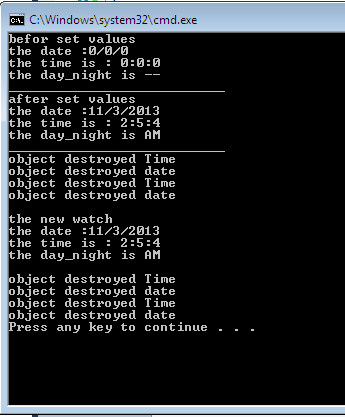
Define an instance **object** of class DateAndTime called **Watch**.

Display the content of this object

Then allows the attributer in the object **Watch** to be reset through the set () with the current date and time .and display the results.

1. Define a new function in **DateAndTime** class called **get**() that return an object of type **DateAndTime** , inside the function return all the attributes value .

**In main** create another object **Watch1** which is copy from **Watch** through the **get** function and display the result.

**Output Example:**