

The following class is used to keep track of **Stocks Portfolio**.  
Your assignment is to complete the implementation of class **Stock**, so the given “main” function will produce the same output as bellow.

### The Output

```
****Part 1****
Stock of MICROSOFT Opened at $25.05 Closed at $25.28 Volume traded is 8000
Stock of MICROSOFT Opened at $25.05 Closed at $25.28 Volume traded is 8231
****Part 2****
Stock of INTEL Opened at $23.22 Closed at $23.36 Volume traded is 4500
Enter the Closing Price of INTEL stocks
23.12
Stock of INTEL Opened at $23.22 Closed at $23.12 Volume traded is 4500
****Part 3****
Stock of MICROSOFT Opened at $25.05 Closed at $25.28 Volume traded is 8231
Stock of MICROSOFT Opened at $25.05 Closed at $25.28 Volume traded is 8131
****Part 4****
Stock of INTEL Opened at $23.22 Closed at $23.12 Volume traded is 4500
Stock of INTEL Opened at $23.22 Closed at $23.12 Volume traded is 4632
****Part 5****
Stock of INTEL Opened at $23.22 Closed at $23.12 Volume traded is 4632
****Part 6****
Stock of MICROSOFT Opened at $25.05 Closed at $25.28 Volume traded is 8131
Stock of MICROSOFT Opened at $25.05 Closed at $25.28 Volume traded is 8131
Stock of MICROSOFT Opened at $25.05 Closed at $26.28 Volume traded is 8131
****Part 7****
Stock of INTEL Opened at $23.22 Closed at $23.12 Volume traded is 4632
Stock of INTEL Opened at $23.22 Closed at $22.12 Volume traded is 4632
Stock of INTEL Opened at $23.22 Closed at $22.12 Volume traded is 4632
****Part 8****
Stock of MICROSOFT Opened at $25.05 Closed at $26.28 Volume traded is 8131
Stock of INTEL Opened at $23.22 Closed at $22.12 Volume traded is 4632
Stock Two with Less volume
**** Done ****
```

Input from the  
keyboard in  
response to the  
“cin

### The Class

```
#include <iostream.h>
#include <cstring>

class Stock {
public:
    Stock(char sNm[], float opn, float cls, int vol) {
        name = new char[strlen(sNm)+1];
        strcpy(name, sNm);
        open  = opn;
        close = cls;
        volume = vol;
    }

    ~Stock() {
        delete [] name;
    }

private:
    char *name;           // Company name
    float open;           // opening price
    float close;          // closing price
    int volume;           // shares traded
};
```

### The “main” function

```
void main() {  
    Stock stkOne("MICROSOFT",25.05,25.28,8000);  
    Stock stkTwo("INTEL",23.22,23.36,4500);  
    Stock stkThree("",0.0,0.0,0);  
  
    cout << "*****Part 1*****\n";  
    cout << stkOne << endl;  
    stkOne += 231;  
    cout << stkOne << endl;  
  
    cout << "\n*****Part 2*****\n";  
    cout << stkTwo << endl;  
    cin >> stkTwo;  
    cout << stkTwo << endl;  
  
    cout << "\n*****Part 3*****\n";  
    cout << stkOne << endl;  
    stkOne = stkOne - 100;  
    cout << stkOne << endl;  
  
    cout << "\n*****Part 4*****\n";  
    cout << stkTwo << endl;  
    stkTwo = 132 + stkTwo;  
    cout << stkTwo << endl;  
  
    cout << "\n*****Part 5*****\n";  
    stkThree = stkTwo;  
    cout << stkThree << endl;  
  
    cout << "\n*****Part 6*****\n";  
    cout << stkOne << endl;  
    cout << stkOne++ << endl;  
    cout << stkOne << endl;  
  
    cout << "\n*****Part 7*****\n";  
    cout << stkTwo << endl;  
    cout << --stkTwo << endl;  
    cout << stkTwo << endl;  
  
    cout << "\n*****Part 8*****\n";  
    cout << stkOne << endl;  
    cout << stkTwo << endl;  
    if (stkOne <= stkTwo)  
        cout << "Stock One with Less/equal volume\n";  
    else  
        cout << "Stock Two with Less volume\n";  
  
    cout << "\n***** Done *****\n";  
}
```

Type **23.12** on the keyboard in response to this “**cin**”

Due date: Wednesday, November 28<sup>th</sup>, 2007