

**CALIFORNIA STATE UNIVERSITY, SACRAMENTO**  
College of Business Administration

MIS 211 - Information Systems II

C++ Array Processing Example

**Main Function**

```

#include <fstream.h>
#include <iostream.h>
#include <stdlib.h>
#include <iomanip.h>
#include <stdio.h>
#include <time.h>
#include <string.h>
//

int main()
{
    char manuf_name[39][25], product[16];           ← Define string arrays
    double revenue[39] = {0}, volume[39] = {0},    ← Define numeric arrays
           total_revenue = 0, total_volume = 0;
    double rev = 0, vol = 0;
    int sub = 0, count = 0, loc_num = 0, i = 0;
//
    ifstream manuf;
    ifstream sales;
    ofstream report;
//
    manuf.open("m.dat");
    sales.open("s.dat");
    report.open("report.txt");
//
    while (!manuf.eof())                            ← Begin WHILE loop
    {
        manuf.getline(manuf_name[count], 25);      ← Load string array
        cout << manuf_name[count] << "  \n";
        count += 1;                                ← Count number of records
    }                                               ← End WHILE loop
//

```



```

count = 0;
while (!sales.eof())
{
    sales >> product >> sub >> rev >> vol;
    count += 1;

    revenue[sub] += rev;
    volume[sub] += vol;
}

for (i=0; i< 38; i++)
{
    total_revenue += revenue[i];
    total_volume += volume[i];

    report      << setw(5) << " "
                << manif_name[i]
                << setw(5) << " "
                << setprecision(0)
                << setiosflags(ios::fixed)
                << setw(20) << revenue[i]
                << setw(20) << volume[i]
                << "\n";
}

report      << "\n"
            << setw(5) << " "
            << "Totals"
            << setw(19) << " "
            << setw(20) << total_revenue
            << setw(20) << total_volume;

sales.close();
manif.close();
report.close();
return 0;
}

```

← Begin WHILE loop

← Load numeric arrays

← End WHILE loop

← Begin FOR loop

← Retrieve data from arrays

← End FOR loop

