

Datafiles

```
using namespace std;
#include <iostream>
```

```
int main ()

{ int hours,id, total,i,j;

  for (i=0;i<6;i++)
  { cin >> id;
    cout << id << "\t\t";
    total =0;
    for (j=0;j<7;j++)
    { cin >>  hours;
      cout << hours << "\t";
      total=total+hours;
    }
    cout << total << endl;
  }

  return 0;
}
```

The ***cin*** statements are now replaced by the variable name which must be of type ***fin***.

The ***cout*** statements are now replaced by the variable name which must be of type ***fout***.

```
using namespace std;
#include <iostream>
#include <fstream>
```

```
int main ()

{ int hours,id, total,i,j;
  ifstream fin;
  fin.open("array.dat");
  ofstream fout;
  fout.open("arrayout.dat");

  for (i=0;i<6;i++)
  { fin >> id;
    fout << id << "\t\t";
    total =0;
    for (j=0;j<7;j++)
    { fin >>  hours;
      fout << hours << "\t";
      total=total+hours;
    }fout << total << endl;
  }
  fin.close();
  fout.close();

  return 0;
}
```

The header file must be in the program if ifstream and ofstream data types are to be recognized.

The files must be explicitly opened in conjunction with a file name and must be closed.