

Programing Assignment 3
CS-185, Spring '99, Dr. C. S. Tritt

Due 4/21/99

Modify the program you wrote for assignment 2 one more time so it uses named constants (parameters) and file input and output.

Use named constants for the costs of frame materials and glass and for the multiplicative factors related to the window styles.

The input file is to be called *job.dat* and will contain an arbitrary number of lines. Each line will consist of values for the width of a particular window in feet, the height of the window in feet, its frame type code, its style code and its glass type code. Notice the order of the style code and glass type code in this assignment has been reversed relative to programs 1 and 2. Values in the input data file will be separated by spaces. For example, a possible *job.dat* file would consist of:

```
2.4 5.6 1 1 1
5.6 12.4 2 2 2
3.0 4.0 3 3 1
```

The output file is to be called *job.out* and should contain two lines for each line in the input file and a total order cost line. Each pair of window related lines should give the dimensions of the respective window, its frame material, its style and its glass type. The total order cost line should give the total cost for all the windows described in the input file. All output should be neatly formatted. For example, the output file corresponding to the input file above would contain:

```
A 2.40 ft by 5.60 ft wood framed budget window
with regular glass will cost $xxx.yy.
A 5.60 ft by 2.40 ft vinyl framed standard window
with Low-E glass will cost $xxx.yy.
A 3.00 ft by 4.00 ft aluminum framed premium window
with regular glass will cost $xxx.yy.
The total cost of this order would be $xxxx.yy.
```