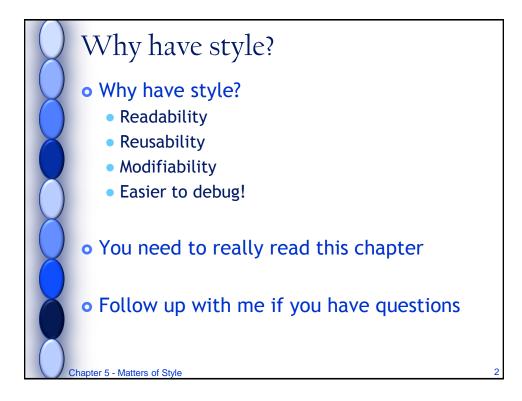
Matters of Style Topic 0



Some style guidelines

- Name identifiers properly
 - Variables → lowercase
 - Constants → UPPERCASE
- o Indent blocks of code
 int main()
 {
 indent here
 }

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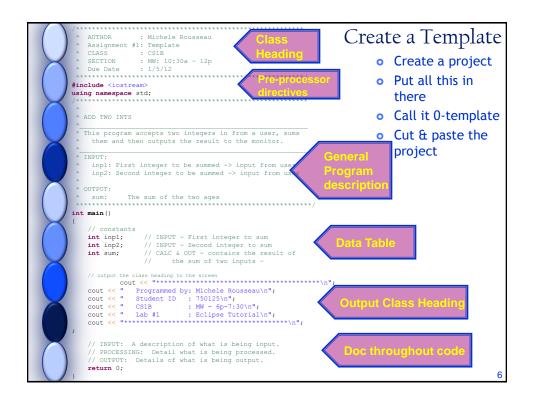
Commenting your code

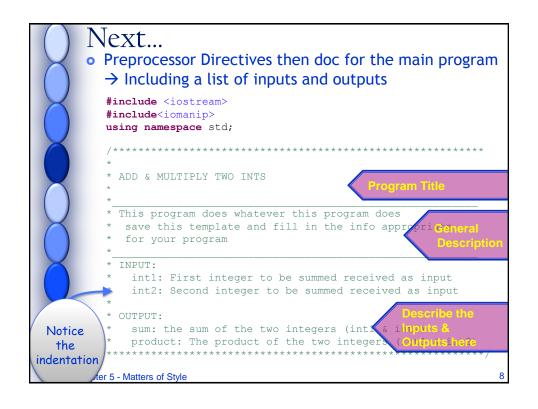
For all programs in this class

- Before int Main
 - Use comments to describe your program
- Data Table
 - The declaration section must contain a data table
 - The data table
 - states the use of the variable or named constant &
 - how its value is obtained/used.
- Other comments should be used throughout your code to
 - Describe what each section is doing
 - **□** (think in terms of input, processing, & output)
 - Complicated parts of the code → be descriptive!

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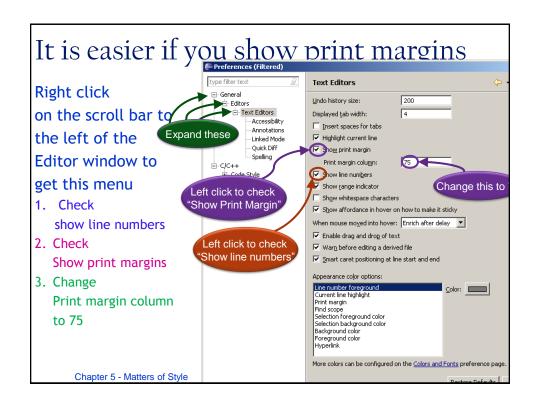
```
Data Tables
 Should state: use of the identifier & how it is used
 Comments should be lined up
 All identifiers should have their own line and datatype
 Which of these are correct?
 int firstNum:
                        // INPUT - first value to average
                      // INPUT - second value to average
 int secondNum;
 float average;
                        // CALC & OUT - average of two values
 CORRECT
 int firstNum; // INPUT - first value to average - INPUT
 int secondNum; // INPUT - second value to average - INPUT
 float average; // CALC & OUT - average of two
 INCORRECT
 int firstNum;
                      // input value
 int secondNum;
                       // input value
 float average;
                        // calculated average
 INCORRECT
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```





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Header & Class Information



```
Documenting executable code
        int main()
           // Declare your constants here
                  document constants above the declarations
                                                All programs have a data table
                                 // INPUT - first value to average
            int
                 num1;
                num1;
                                 // INPUT - second value to average
                                 // CALC & OUT - integer
             float average;
  Space
                                                                  Document
 Between
             7/ INPUT -- get numbers to average from user
                                                                 above each
operators
            cout << "Enter first value to double: ";</pre>
                                                                code segment
            cin
                  >> num1:
                            Double space between code segments
Block of
             // PROCESSING -- calculate the average
code is
           average = float(num1 + num2) / 2;
indented
            // OUTPUT -- output the average
            cout << "\n\nThis average is: " << average;</pre>
            return 0;
        CORRECT
```

Initializing Variables DO NOT INITIALIZE VARIABLES IN THE DECLARATION SECTION. • Initialize variables just before their use in the program. int count; count = 0; CORRECT int count = 0; INCORRECT Chapter 5 - Matters of Style

