Lab #6: Monthly Revenue Calculator

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ALGORITHM

Less calculations, more manual input

* Prompt the user to enter the number of invoices that have been sent out, including the appropriate error checking for invalid values.
* Dynamically create a built-in array based on this number (not a vector or object of the array class) to hold pointers to CompletedJob objects
  + CompletedJob\*\* jobs = new CompletedJob\*[numJobs];
* Loop in main() that executes once for each of the number of jobs that the user indicated (two options each time)
  + 1) One should prompt the user for each of the variables listed for the class
  + 2) Prompt the user for a file name and read the data from a file as seen in the screenshot
  + Number needs to be generated using a random number generator, between 1-1000 (inclusive). Seed this random number generator with 1000.
  + Dynamically create a CompletedJob object using the default constructor of the class and the set functions. Each CompletedJob pointer should then be stored in the array
* Print report, prompt output file and print to file

class CompletedJob

* Public:
  + Default Constructor
  + Get and set for each variable
  + **float** totalRevenue()
* Private:
  + **string** client name
  + **integer** invoice number, rooms painted
  + **float** labor charges, number of paint cans, product charges, mileage, and travel charges

SCREEN-SHOTS OF RUNNING PROGRAM

Text

Description automatically generated

INTEGRITY STATEMENTS

* I have not shared the source code in my program with anyone other than the pre-approved human sources.
  + *Please include a note here if you have used one or more of the pre-approved human sources or received special permission from me.*
* I have not used source code obtained from another student, or any other unauthorized source, either modified or unmodified.
* If any source code or documentation used in my program was obtained from another source, such as the course textbook or course notes, that has been clearly noted with a proper citation in the comments of my program.
  + It would also be helpful to include a note here of which sources you used
* I have not knowingly designed this program in such a way as to defeat or interfere with the normal operation of any machine it is graded on or to produce apparently correct results when in fact it does not.

Note: These statements serve as your personal promise that the above is true. If I find that you have not been true to ALL of the four statements above, you will get a zero for the assignment and receive an academic violation report (which goes on your academic record). Both are minor compared to the loss of your integrity.