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| Input(s): | * Grades for each assignment they have finished * Lab attendance * Class participation marks * Midterm marks * Final Exam Mark |
| Output(s): | It will ask for each assignment grade they got, how many times they have attended labs, how many times they have attended class, your two midterm marks, and the grade on the final exam. After all of that is inputted, it will spit out your final percentage and your letter grade associated with it. |
| Example: | Assignments.  1>  2>  3>  ...  8>  # of times you attended lab.  6  # of times you attended class quizzes.  4  Midterm mark  67.8  Final exam mark?  97.5%  Your final grade is \_\_\_\_\_, and your letter grade is \_\_\_\_ |

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| Program Description | |  | | --- | | **(Describe a subset of the problem that will be the focus of the first stage of program development.)** |   Create a general method that will re-prompt the user for input again if the initial value was not within specified parameters, and then put it through a forloop to run it over and over again for however many times they want entries. |
| Psuedo-Code: | Method for reprompting the user if they typed wrong input:  Assign a method that returns a value(pass scanner, pass min and max values of parameters, and the number of times you want to ){  Ask for input via scanner  while(check if it is outside of parameter values){  -print error message  -ask for another value  }  Return that value back  }  Then in a separate method, use a forloop to execute this multiple times.  --  Set a variable (call it TOTAL or whatever) that will help sum up the total of the marks; make this initially zero. Then make a forloop for multiple entries:  for( set to 1; however many times you want to run it; increment of 1){  -print our forloop integer value to keep track of how many inputs we have.  -call the method aforementioned that will return a value from scanner input  -TOTAL is equal to itself + the value from the method that was called  }  Return your TOTAL value.  -- |
|  | |  | | --- | | **(Implement and Test the above pseudo-code. Use Numbers from the example for testing.)** | |

Repeat: Problem Description (for a subset of the problem), Pseudo code and Implementation.