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CSC-117-02 Java Programming  
Due Date: 3/10/2021  
What does the program do: This program demonstrates using a while  
loop to calculate the average of test scores from a class

Design:

1. Start
2. Initialize variables
   1. First Name
   2. Middle Initial
   3. Last Name
   4. First Test Score
   5. Second Test Score
   6. Third Test Score
   7. Average
   8. Final Average = 3
   9. Class Average
   10. Students
   11. Repeat
   12. Sum (accumulator)
3. Create input scanner
4. Display “ to start the program enter y or Y or any other key to end”
   1. Set repeat
5. While(repeat == ‘Y’ OR repeat == ‘y’)
   1. Display “how many students are in your class”
      1. Set students
   2. While(students > 0)
      1. Display “enter first name”
         1. Set first name
      2. Display “enter middle initial”
         1. Set middle initial
      3. Display “enter last name”
         1. Set last name
      4. Display “enter test score 1”
         1. Set test score 1
            1. While(test score 1 <= 0)
            2. Display “test score must be greater than 0 please reenter”
            3. Set test score 1
      5. Display “enter test score 2”
         1. Set test score 2
            1. While(test score 2 <= 0)
            2. Display “test score 2 must be greater than 0 please reenter”
            3. Set test score 2
      6. Display “enter test score 3”
         1. Set test score 3
            1. While(test score 3 <= 0)
            2. Display “test score 3 must be greater than 0 please reenter”
            3. Set test score 3
      7. Display first name
      8. Display middle initial
      9. Display last name
      10. Calculate average
      11. Accumulator
      12. Display average
      13. Decrement students
      14. Display count
   3. Calculate class average
   4. Display class average
   5. Display “to restart program enter y or Y or any other key to end”
      1. Set repeat
6. End