**Choice 1 (convertResultIntoLetterGrade) method pseudocode:**

Receive student’s percentage mark as an input parameter.

Create a new local variable to store the data to return.

Run the percentage through if statements to find the corresponding letter:

*If the percentage is higher than 69, assign letter A to the local variable*

*If the percentage is between 69-59, assign letter B to the local variable*

*If the percentage is between 59-49, assign letter C to the local variable*

*If the percentage is between 49-39, assign letter D to the local variable*

*If the percentage is lower than 40, assign letter E to the local variable*

Return the local variable as a result.

**Choice 3 (calculateStatisticsOfNumbers) method pseudocode:**

Initiate local variables to store data (total, average, maximum and minimum)

Initiate a variable to count the number of entered numbers

Start a while loop that runs until the variable responsible for entered numbers reaches the value of 4

**Loop:**

Prompts user to enter number

*If the number is not a double type, prompt to re-enter*

Calculate the total of all entered numbers

Calculate the average of numbers

Calculate the minimum number entered:

*If it’s the first number, the minimum value is assigned to it.*

*Else the value is compared to the minimum value and if it’s smaller, the minimum value is updated*

Calculate the maximum number entered:

*If it’s the first number, the maximum value is assigned to it.*

*Else the value is compared to the maximum value and if it’s bigger, the maximum value is updated*

Adds one to the variable responsible to count the number of entered numbers

Loop ends

Display the results to the user.

Answer to the question:

If the choice 3 method was a non-static method, instead of being called public static void choice3(), the method would be called public void choice3(). The class Choice would need an object in order to call the method since it’s non-static. It would not be possible to call the method from the Menu class by referencing to it only by a class name (Choice.choice3() would not work).

Self-evaluation:

I’ve learned more about loops, especially do while loop as it was completely new for me. I also learned to call static methods and figured out you do not always need objects for the class to be useful. I managed to complete all the tasks, including the optional one. I had some difficulties with reading the user input – I had to make sure that the input was suitable for the methods and that it was the correct type of variable. This especially had been quite difficult so I had to watch some videos about how scanner works and read more about its methods. In the end I managed to solve the issues by rewriting some methods several times. Overall, I am pleased with how my code looks and I believe it should be not too difficult to read due to comments and spacing.