Pseudo code for method 2.1

Method menuOption()

Scanner to for user input.

If input=1 then

{ display message to user "Open grade calculator" }.

Break;

If input=2 then

{display message to user "method choice 2 executed"}

If input=3 then

{display message to user "method choice 3 executed"}

If input = 4 then

{display message to user "Goodbye"}.

Method grade calculator()

Scanner for Percentage grade input.

if the user input is greater than 69

Then grade = A

if the user input is greater than 59

Then grade = B

if the user input is greater than 40

Then grade = C

if the user input is less than 39

Then grade = E

Display the message “Your grade is” + grade

Return grade.

Pseudo code for question 2.4

**Method public static String statistics()**

The loop will run while ((first number + second number + Third number + fourth number) are greater than or equal to 0 ).

Display message “statistics is executed”.

Display message “ please input first number”.

Scanner Input first number .

Display message “ please input second number” .

Scanner Input second number.

Display message “please input third number”.

Scanner input third number.

Display message “please input fourth number”.

Scanner input fourth number.

Check for numbers that are below negative one.

Method to calculate the total of the inputted numbers.

Display the total.

Method to calculate the average of the inputted numbers.

Display the average.

Calling the method to calculate the maximum number.

Calling the method to calculate the minimum number.

**Method to calculate maximum numbers**

The maximum is number 1

If number 1 is less than number 2 then number 2 equals the max.

If number 2 is less than number 3 then number 3 equals the max.

If number 3 is less than number 4 then number 4 equals the max.

Display “the maximum is ”

**Method to calculate minimum numbers**

The minimum is number 1

If number 1 is greater than number 2 then number 2 equals the max.

If number 2 is greater than number 3 then number 3 equals the max.

If number 3 is greater than number 4 then number 4 equals the max.

Display “the minimum is ”.

**Method checking for the minus one**

if number one is less than negative one ,

or number 2 is less than negative one,

or number three is less than negative one,

or number one is less than negative four.

Then display message “cannot input a negative number please enter another number”

Answer to question 2.5

To change method 3 from a static method to a none static method, I would have to create an instance of an object that I could use to call the method 3 from the main method since none static need to be called with objects.

Self-evaluation

When compared to last week’s assignment I could do more of the task’s here than previously, but the while and do while loops presented me with some challenges. I also had trouble with the choice 2 method but managed to figure it out in the end, I decided to do the optional choice 4 method for the assignment and choose to use an if and else statement.