Student Name: Margret Beniameen

Student Number: 10474901

**Pseudocode**

**Main body of the code**

Set datalist to an empty list.

try to open a file named “data.txt” in read mode.

load the data from the file into a variable named data

close the file.

Handle exceptions if file not existing or it is not containing valid JSON data

print a welcome message (Welcome to the Fruit Test Admin Program)

enter an endless loop

print a list of options: Choose [a]dd, [l]ist, [s]earch, [v]iew, [d]elete or [q]uit.

prompts the user to enter their choice.

If the user enters “a” (add)

Set data to an empty dictionary

Prompt user to enter fruit name

how many calories in 100 grams are there?

Grams of fibre are there

grams of sugar are there

Milligrams of vitamins c are there.

append the dictionary to datalist

write the list to the text file in JSON format.

Else if user enters “l” (list)

If the length of datalist is zero

Print No fruit saved

Else

display the names of all fruit in the data list preceded by their index number

Else if user enters “s” (search)

If the length of datalist is zero

Print No fruit saved

Else

prompt for a search term

list the fruit that is the search term including its index.

Else if user enters “v” (view)

If the length of datalist is zero

Print (No fruit saved)

Else

prompt user for an index number

if the user enters an index number that doesn’t exist in the data list

print (Invalid index number).

Else

print the corresponding fruit’s name and all of its nutritional information

Else if user enters “d” (delete)

If the length of datalist is zero

Print (No fruit saved)

Else

prompt user for an index number

if the user enters an index number that doesn’t exist in the data list.

Print ('Invalid index number')

Else

remove the corresponding fruit from the data list

print (Fruit Deleted)

call save Data () function to write the data to the text file in JSON format.

Else if user enters “q” (quit)

Print (Goodbye!)

break out of the loop to end the program

Else, the user enters anything else

print an “Invalid choice” message

**Function**

“inputInt ()” function

Define “inputInt ()” function with one parameter (prompt)

Set error Message = invalid input tries again

Endless Loop:

Prompt for input with prompt parameter

Try:

Convert response to integer and store in numResponse variable

On ValueError exception:

Print errorMessage

Continue to next iteration of loop

Return numResponse variable

“inputFloat ()” function

Define “inputFloat ()” function with one parameters (prompt)

set error Message = invalid input tries again

Endless Loop:

Prompt for input with prompt parameter

Try:

Convert response to float and store in numResponse variable

On ValueError exception:

Print errorMessage

Continue to next iteration of loop

Return numResponse variable

“inputSomething ()” function

Define “inputSomething ()” function with one parameter (prompt)

set error Message = invalid input tries again

Endless Loop:

Prompt for input with prompt parameter and remove whitespace from the start and end

If value is given

Return value

Else

Print input something message

“saveData ()” function

Define “saveData ()” function with one parameter (dataList)

open “data.txt” in write mode

write the dataList parameter to the file in JSON format

close the file

**Jokes 😊😊**

**A picture containing indoor

Description automatically generated**

A screenshot of a cell phone

Description automatically generated