List Assignment 2 Question 1 Pseudocode

x = []

number = int(input(“What is your mark?”))

Length = (len(x))

ave = sum(x)/Length

Length = int(Length/2)

value = int(Length -1)

Length = str(Length/2)

value = int(Length[0])

x is assigned to an empty list

while True:

Number is assigned to prompting the user for their mark repeatedly

If the number is equal to -1:

The loop of prompting the user will break

All the marks will be added to the list ‘x’ (append)

All the marks in the list will be sorted from lowest to greatest

Print statement of the lowest mark

Print statement of the highest mark

Length is assigned to the length of the number of elements in the list

Ave is assigned to the sum of the marks divided by ‘Length’ (sum(x)/Length)

Print statement of the class average

If the Length is divisible by 2 without a remainder:

The new Length variable is assigned to the previous Length divided by two in integer form

The variable value is assigned to the new Length variable minus one in integer form

Print statement for the median of the class by taking the sum of the index of value and Length in the list which is later divided by two .

If the Length is not divisible by 2 and has a remainder:

The new Length variable is assigned to the previous Length (len(x)) and divided by two in string format

The variable value is assigned to the first character in the number of Length (ex. 3.5 would be 3)

Print statement for the median of the class by outputting the mark of the index value in the list