Student Name: Ronaldlee Ejalu
Student No: 2020637
Module 1: Homework Part1(a)

```python
def computeTheAverage(strParameter):
    """Function that returns the average of a string containing comma separated number"""

    average = 0
    sum = 0

    # Using a list comprehension to access the string values,
    # which are converted into an integer before being added to the list.
    listOfStringValues = [int(i) for i in strParameter.strip().split(', ')]

    for num in listOfStringValues:                          # iterate through a list of numbers as you compute the sum.
        sum += int(num)

    average = sum / len(listOfStringValues)                 # compute the average
    return average                                          # return the average

def main():
    # strParameter = "5, 6, 12, 55, 1"
    # test1 = computeTheAverage(strParameter)       # helper function which takes a string containing comma separated numbers and returns the average of those numbers
    # print("The average of a string containing comma separated numbers (%s)  is %s" %(strParameter, test1))


    strPar2 = "100, 3, 6, 0, 56, 3, 9, 19"
    test2 = computeTheAverage(strPar2)                 # helper function which takes a string containing comma separated numbers and returns the average of those numbers
    print("The average of a string containing comma separated numbers (%s)  is %s" %(strPar2, test2))

main()
```

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Module 1: Homework Part1(a)

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```python
1
2    def computeTheAverage(strParameter):
3        """Function that returns the average of a string containing comma separated number"""
4
5        average = 0
6        sum = 0
7
8        # Using a list comprehension to access the string values,
9        # which are converted into an integer before being added to the list.
10       listOfStringValues = [int(i) for i in strParameter.strip().split(', ')]
11
12       for num in listOfStringValues:                        # iterate through a list of numbers as you compute the sum.
13           sum += int(num)
14
15       average = sum / len(listOfStringValues)               # compute the average
16       return average                                        # return the average
17
18   def main():
19       strParameter = "5, 6, 12, 55, 1"
20       test1 = computeTheAverage(strParameter)         # helper function which takes a string containing comma separated numbers and returns the average of those numbers
21       print("The average of a string containing comma separated numbers (%s)  is %s" %(strParameter, test1))
22
23
24       # strPar2 = "100, 3, 6, 0, 56, 3, 9, 19"
25       # test2 = computeTheAverage(strPar2)
26       # print("The average of test2 is %s" %test2)
27
28   main()
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   1: Python

```
PS C:\Users\rejalu1> & C:/Users/rejalu1/AppData/Local/Programs/Python/Python39/python.exe "c:/Users/rejalu1/OneDrive - Henry Ford Health System/DSC450/Assignments/Week1/Part1PythonFunctions/computeTheAverage.py"
The average of a string containing comma separated numbers (5, 6, 12, 55, 1)  is 15.8
PS C:\Users\rejalu1>
```

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C: > Users > rejalu1 > OneDrive - Henry Ford Health System > DSC450 > Assignments > Week1 > Part1PythonFunctions > computeTheAverage.py > ...

```python
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2    def computeTheAverage(strParameter):
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8        # Using a list comprehension to access the string values,
9        # which are converted into an integer before being added to the list.
10       listOfStringValues = [int(i) for i in strParameter.strip().split(', ')]
11
12       for num in listOfStringValues:                        # iterate through a list of numbers as you compute the sum.
13           sum += int(num)
14
15       average = sum / len(listOfStringValues)               # compute the average
16       return average                                        # return the average
17
18   def main():
19       # strParameter = "5, 6, 12, 55, 1"
20       # test1 = computeTheAverage(strParameter)         # helper function which takes a string containing comma separated numbers and returns the average of those numbers
21       # print("The average of a string containing comma separated numbers (%s)  is %s" %(strParameter, test1))
22
23
24       strPar2 = "100, 3, 6, 0, 56, 3, 9, 19"
25       test2 = computeTheAverage(strPar2)                    # helper function which takes a string containing comma separated numbers and returns the average of those numbers
26       print("The average of a string containing comma separated numbers (%s)  is %s" %(strPar2, test2))
27
28   main()
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   1: Python

```
PS C:\Users\rejalu1> & C:/Users/rejalu1/AppData/Local/Programs/Python/Python39/python.exe "c:/Users/rejalu1/OneDrive - Henry Ford Health System/DSC450/Assignments/Week1/Part1PythonFunctions/computeTheAverage.py"
The average of a string containing comma separated numbers (100, 3, 6, 0, 56, 3, 9, 19)  is 24.5
PS C:\Users\rejalu1>
```