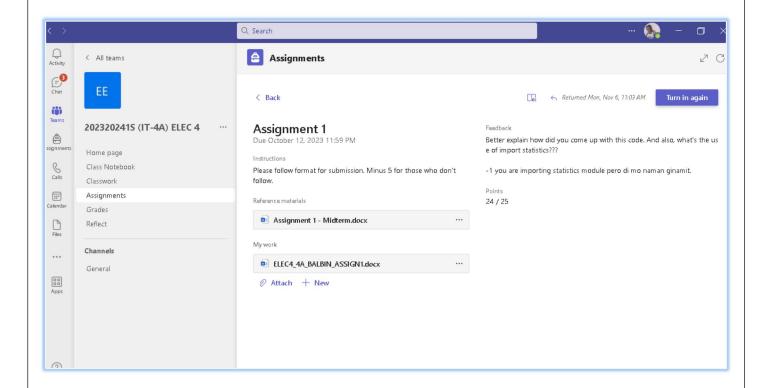
CHRISTINE M. BALBIN BSIT-4A

ASSIGNMENT 1





Pangasinan State University Urdaneta City Campus

Assignment 1

Elective 4 (Special Topics on Web and Mobile 2)

Name: Christine M. Balbin

Date: October 5, 2023 / Deadline: October 12, 2023

Points: 25

Instructions:

- 1. Create a function to calculate the 'mean' of a list of numbers.
 - Return 'mean'
- 2. Create a function to calculate the 'median' of a list of numbers.
 - Return `median`
- 3. Create a main function to get user input, calculate mean and median, and display results
 - Ask positive integer inputs separated by spaces.
 - > Split the given input.
 - > Calculate the mean and median of the input
 - Display the elements of the list, the mean, the median

Your code here....

My two file.. app.js and mymodule/module.py

//app.py

```
from mymodule import module

mylist = [1, 2, 3, 4, 5]

result = module.calculateMean(mylist)

print('.....Number 1....')

print("Mean: ", result)

mylist = [9, 2, 6, 5, 3, 5, 3, 1, 4, 5, 1]

result = module.calculateMedian(mylist)

print('....Number 2......')

print("Median: ", result)

print('....Number 3....')

result = module.main()

if "error" in result:

    print(result["error"])

else:

    print(f"Entered Positive integers : {result['positive_numbers']}")
```

```
median = module.calculateMedian(result['positive_numbers'])
    result = module.calculateMean(result['positive_numbers'])
   print("Median :", median)
   print("Mean: ", result)
//module.py inside folder mymodule
import statistics
def calculateMean(nums):
   if len(nums) == 0:
        return None
   total = sum(nums)
   mean = total / len(nums)
   return mean
def calculateMedian(numbers):
    sorted_numbers = sorted(numbers)
   middleIndex = len(sorted_numbers) // 2
   if len(sorted_numbers) % 2 == 1:
       median = sorted numbers[middleIndex]
    else:
        median = (sorted_numbers[middleIndex - 1] + sorted_numbers[middleIndex]) / 2
    return median
def main():
    userInput = input("Enter positive integers separated by spaces: ")
   try:
        input list = userInput.split()
        input_numbers = [int(num) for num in input_list]
        positiveNumbers = [num for num in input_numbers if num > 0]
        if positiveNumbers:
            total_sum = sum(positiveNumbers)
            average = total_sum / len(positiveNumbers)
            return {
                "positive_numbers": positiveNumbers,
            }
        else:
```

Output....

```
Mean: 3.0
....Number 2.....

Median: 4
....Number 3....

Enter positive integers separated by spaces: 1 2 3 4 5 6 7 8
Entered Positive integers: [1, 2, 3, 4, 5, 6, 7, 8]

Median: 4.5

Mean: 4.5
```