

CHRISTINE M. BALBIN
BSIT-4A

ASSIGNMENT 1

The screenshot shows a Microsoft Teams interface. On the left is a sidebar with navigation icons for Activity, Chat (with a red notification badge), Teams, Assignments, Grades, Reflect, and Channels. The main content area is titled 'Assignments' and shows details for 'Assignment 1'. The assignment is due on October 12, 2023, at 11:59 PM. It includes instructions to follow a specific format for submission, with a note that 5 points will be deducted for those who don't. Reference materials include a document titled 'Assignment 1 - Midterm.docx'. Under 'My work', there is a document titled 'ELEC4_4A_BALBIN_ASSIGN1.docx'. A feedback section on the right contains the text: 'Better explain how did you come up with this code. And also, what's the use of import statistics???' and '-1 you are importing statistics module pero di mo naman ginamit.' The points for this assignment are 24 / 25. At the top right of the assignment page, there is a 'Turn in again' button and a status indicator showing 'Returned Mon, Nov 6, 11:03 AM'.

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202320241S (IT-4A) ELEC 4

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Assignment 1

Due October 12, 2023 11:59 PM

Instructions

Please follow format for submission. Minus 5 for those who don't follow.

Reference materials

Assignment 1 - Midterm.docx

My work

ELEC4_4A_BALBIN_ASSIGN1.docx

Attach + New

Feedback

Better explain how did you come up with this code. And also, what's the use of import statistics???

-1 you are importing statistics module pero di mo naman ginamit.

Points

24 / 25



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:

```

```

        return {
            "positive_numbers": [],
        }
    except ValueError:
        return {
            "error": "Invalid input! Please enter positive numbers with spaces."
        }
if __name__ == "__main__":
    result = main()
    if "error" in result:
        print(result["error"])
    else:
        print(f"Positive integers entered: {result['positive_numbers']}")

```

Output....

```

.....Number 1.....
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

```