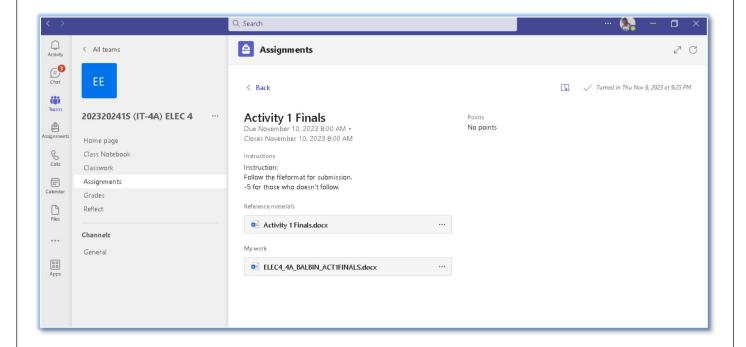
CHRISTINE M. BALBIN BSIT-4A

Activity 1 Finals





Pangasinan State University Urdaneta City Campus

Activity 1

Elective 4 (Special Topics on Web and Mobile 2)

Name: CHRISTINE M. BALBIN	Date: November 8, 2023
	Points: 20

Write a program that do the following:

Task 1: Create an array `arrayOfScores

Task 2: Create a function `askValues ` which accepts only positive values terminated by 0 then add it to the array.

Task 3: Call the function `askValues

Task 4: Iterate each array items and check the following

- a) value is between or equal to 75-80 print the value and "Grade: 3.00"
- b) value is between or equal to 81 85 print the value and "Grade: 2.50"
- c) value is between or equal to 86 90- print the value and "Grade: 2.00"
- d) value is between or equal to 91-95- print the value and "Grade: 1.50"
- e) value is between or equal to 96 100- print the value and "Grade: 1.00"
- f) value is less than 75 print the value and "Failed"
- --Value greater than 75 is added to a list (Referring to `arrayOfScores`)

Task 5: Iterate the list to get the average. Print all the elements of the list and display the average.

Your code here....

```
# app.py
from mymodule import module
import array
# Task 1
arrayOfScores = array.array('d', []) # 'd' for double, to handle floating-point values
# Task 3
values = module.askValues()
# Task 4
for score in values:
    if 75 <= score <= 80:
        print(f"{score} - Grade: 3.00")
    elif 81 <= score <= 85:
        print(f"(score) - Grade: 2.50")
    elif 86 <= score <= 90:
        print(f"{score} - Grade: 2.00")
    elif 91 <= score <= 95:</pre>
```

```
print(f"{score} - Grade: 1.50")
    elif 96 <= score <= 100:
        print(f"{score} - Grade: 1.00")
    elif score < 75:
        print(f"{score} - Failed")
    else:
        print(f"{score} - Valid grade is 75 to 100 only")
for val in values: #checks if the current element (val) is greater than 75.
    if 75 <= val <= 100:
        arrayOfScores.append(val)
 # adds only those greater than 75 and less than and equal to 100 to the arrayOfScores
# Task 5
average = sum(arrayOfScores) / len(arrayOfScores) if arrayOfScores else 0
# If arrayOfScores is empty, it returns 0
print("\nList of Scores:", arrayOfScores)
print("Average:", average)
```

```
# module.py
# Task 2

def askValues():
    values = []
    while True:
        try:
            value = float(input("Enter a positive number (Enter 0 to terminate): "))
        if value == 0:
                 break
        elif value <= 0:
                 print("Only positive values are allowed.")
        else:
                 values.append(value)
        except ValueError:
                 print("Invalid input. Please enter a numeric value.")</pre>
```

Output:

```
Enter a positive number (Enter 0 to terminate): 88
Enter a positive number (Enter 0 to terminate): 99
Enter a positive number (Enter 0 to terminate): 73
Enter a positive number (Enter 0 to terminate): 88
Enter a positive number (Enter 0 to terminate): 71
Enter a positive number (Enter 0 to terminate): 87
Enter a positive number (Enter 0 to terminate): 0
88.0 - Grade: 2.00
79.0 - Grade: 3.00
88.0 - Grade: 1.00
73.0 - Failed
88.0 - Grade: 2.00
71.0 - Failed
87.0 - Grade: 2.00
List of Scores: array('d', [88.0, 79.0, 88.0, 99.0, 88.0, 87.0])
Average: 88.1666666666667
```

Activity

