

AI LAB EXTRA TASK

21K-3153

```
[ ] gradebook = {
    'Bilal': (85, 92, 78, 89, 95),
    'Ehaab': (76, 88, 90, 82, 79),
    'Khubaib': (91, 87, 95, 78, 84)
}
def add_student(gradebook, student_name):
    gradebook[student_name] = tuple()
def add_grades(gradebook, student_name, new_grades):
    if student_name in gradebook:
        gradebook[student_name] += new_grades
    else:
        print(f"Student '{student_name}' not found in the gradebook.")
def calculate_average_grades(grades):
    if grades:
        return sum(grades) / len(grades)
    else:
        return 0
def display_gradebook(gradebook):
    for student, grades in gradebook.items():
        average_grade = calculate_average_grades(grades)
        print(f"{student}: Grades - {grades}, Average - {average_grade:.2f}")
print("original gradebook:")
display_gradebook(gradebook)
# Add a new student
add_student(gradebook, 'Hamiz')
# Add grades for a student
add_grades(gradebook, 'Hamiz', (85, 90, 88, 79, 92))
# Display the updated gradebook
print("new students and grades added")
display_gradebook( gradebook)
```

```
print( new students and grades added )
display_gradebook( gradebook)
```

```
➞ original gradebook:
Bilal: Grades - (85, 92, 78, 89, 95), Average - 87.80
Ehaab: Grades - (76, 88, 90, 82, 79), Average - 83.00
Khubaib: Grades - (91, 87, 95, 78, 84), Average - 87.00
new students and grades added
Bilal: Grades - (85, 92, 78, 89, 95), Average - 87.80
Ehaab: Grades - (76, 88, 90, 82, 79), Average - 83.00
Khubaib: Grades - (91, 87, 95, 78, 84), Average - 87.00
Hamiz: Grades - (85, 90, 88, 79, 92), Average - 86.80
```