

# Student Class Assignment

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## Overview

Create a `Student` class that stores and manages student information including name and grade.

## Requirements

### Class Structure

Your `Student` class should have the following methods:

1. `__init__()`
  - Initialize a student with a name and grade
  - Store both name and grade as instance variables
2. `get_name()`
  - Return the student's name
3. `get_grade()`
  - Return the student's grade
4. `set_grade()`
  - Update the student's grade to the new value
  - Modify the instance variable directly

## Expected Behavior

### Example Usage

```
# Create a student
student = Student("Alice", 85)
print(student.get_name()) # Should output: "Alice"
print(student.get_grade()) # Should output: 85

# Update the grade
student.set_grade(90)
print(student.get_grade()) # Should output: 90

# Access attributes directly
print(student.name) # Should output: "Alice"
print(student.grade) # Should output: 90

# Create multiple students
student1 = Student("Bob", 92)
```

```
student2 = Student("Charlie", 78)

print(student1.get_name())    # Should output: "Bob"
print(student2.get_grade())   # Should output: 78
```

## Test Cases

Your implementation should pass all the following test cases:

1. **Student creation:** Create student with name and grade, verify both are stored correctly
2. **Get name:** Method returns the correct student name
3. **Get grade:** Method returns the correct student grade
4. **Set grade:** Method updates the grade and both direct access and getter return new value
5. **Different grades:** Multiple students can have different grades
6. **Grade updates:** Multiple grade updates work correctly
7. **String name:** Student name is stored as a string
8. **Numeric grade:** Student grade is stored as a number

## Implementation Tips

- Store both name and grade as instance variables
- The `set_grade()` method should modify the instance variable directly
- Both getter methods should return the stored values
- Make sure your class follows the exact method signatures shown above
- The class should be simple and straightforward - no complex validation needed

## Data Types

- **Name:** Should be a string
- **Grade:** Should be a number (int or float)