

Exercise: Manage a Class of Students

Objective

You have a class of students with their names and grades. Your job is to perform various tasks to manage this class using array methods.

Initial Data

```
const students = [  
  { name: "Alice", grade: 90 },  
  { name: "Bob", grade: 85 },  
  { name: "Charlie", grade: 92 },  
];
```

Tasks

1. **Add New Students**
 - Add three new students to the class with their grades.
2. **Remove Last Student**
 - Remove the last student from the list.
3. **Add Students at Beginning**
 - Add two students at the beginning of the array.
4. **Remove First Student**
 - Remove the first student from the list.
5. **High Achievers**
 - Create a new array that includes only students who have grades greater than 90.
6. **Sort by Grade**
 - Sort the array of high achievers by grade in descending order.
7. **Square the Grades**
 - Create a new array that contains the square of each student's grade.
8. **Total Grade**
 - Calculate the total grade sum of all students.
9. **Are All Students Passing?**
 - Check if all students have grades above 60.
10. **Is Anyone Failing?**
 - Check if any student has a grade below 60.
11. **Find First Average Student**
 - Find the first student who has a grade of 85.