

11b) Write a c++ program to create two objects of a class called company and add their data members using an operator overloaded function for '+' operator and '-' operator.

```
#include <iostream>
class Company {
private:
    int employeeCount;

public:
    // Constructor to initialize employeeCount
    Company(int count) : employeeCount(count) {}

    // Overloading + operator to add employee counts
    Company operator+(const Company & other) const {
        return Company(employeeCount + other.employeeCount);
    }

    // Overloading - operator to subtract employee counts
    Company operator-(const Company & other) const {
        int result = employeeCount - other.employeeCount;
        // Ensure the result is non-negative
        return Company(result >= 0 ? result : 0);
    }

    // Function to get the current employee count
    int getEmployeeCount() const {
        return employeeCount;
    }
};

int main() {
    // Creating two objects of the Company class
    Company company1(50);
    Company company2(30);

    // Adding the employee counts of two companies
    Company sum = company1 + company2;
    std::cout << "Total employees after addition: " << sum.getEmployeeCount() << std::endl;

    // Subtracting the employee counts of two companies
    Company difference = company1 - company2;
    std::cout << "Remaining employees after subtraction: " << difference.getEmployeeCount() <<
    std::endl;
    return 0;
}
```

