5.1 Define a class to represent a bank account. Include the following members.

Data members

1. Name of the depositor
2. Account number
3. Type of account
4. Balance amount in the account

Member functions

1. To assign initial values
2. To deposit an amount
3. To withdraw an amount after checking the balance
4. To display name and balance

Write a main program to test the program.

5.2 Write a class to represent a vector (a series of float values). Include member functions to perform the following tasks:

(a) To create the vector
(b) To modify the value of a given element
(c) To multiply by a scalar value
(d) To display the vector in the form (10, 20, 30, ...)

Write a program to test your class.

5.3 Modify the class and the program of Exercise 5.11 for handling 10 customers.

5.4 Modify the class and program of Exercise 5.12 such that the program would be able to add two vectors and display the resultant vector. (Note that we can pass objects as function arguments.)