

# Lab Experiment - 4



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7. WAP to represent the vector and include the member functions to form the following tasks:
  - ☐ Create the vector
  - ☐ Modify the value of a given element
  - ☐ Multiply by scalar value
  - ☐ Display the vector in the form (10, 20, 30,...)
8. WAP to find the occurrences of the largest digit of a number within a set of numbers.
9. WAP to find the occurrence of the largest number within a set of numbers with following specification
  - ☐ Take an array of numbers as input (dynamically allocated).
  - ☐ Then take any position of the array within the range.
  - ☐ Check whether that element exists or not, if yes find the occurrence locations and number of occurrences.

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10. WAP by defining a class called Complex that has floating point data members for storing real and imaginary parts. The class has the following member functions:
  - ☐ void set(float, float) to set the specified value in object
  - ☐ void disp() to display complex number object
  - ☐ complex sum(complex) to sum two complex numbers & return complex number

Write the definitions for each of the above member functions.

Write main function to create three complex number objects. Set the value in two objects and call sum() to calculate sum and assign it in third object. Display all complex numbers.
11. WAP for a class called Distance that has data member feet as integer and inches as float. The class has the following member functions:
  - ☐ void set(int, float) to give value to object.
  - ☐ void disp() to display distance in feet and inches.
  - ☐ Distance add(Distance) to sum two distances & return distance.