

## Lab9: Inheritance, Containership, Constructors and Destructors

1. .Write a program to demonstrate containership in C++?
2. Write a program in C++ to design a class Validate\_Email which contains a static data member "email\_address" and static member function "check()" -- to validate given email address is valid or not. If the "email\_address" violates any of the following conditions then a message should be displayed as "Invalid email address".
  - i) it must have '@' symbol in the middle of the string.
  - ii) The string must be terminated with ".com"
3. Write a program using parameterised constructor to
  - (i) read the figures,
  - (ii) calculate the batting average and
  - (iii) print the complete table in the decreasing order of the average by including average.

Name	Runs	Innings	Times not out
K L Rahul	3230	60	18
Rohit Sharma	8430	120	15
..	..	..	..

4.

An election is contested by 3 candidates and the candidates are numbered from 1 to 3. The voting is done by marking the candidate number on the ballot paper. Write a program using constructor and destructor to

  - (i) cast the vote for user supplied n voters, and to
  - (ii) read the ballots and count the votes for each candidate.

In case a number read is outside the range of 1 to 3, the ballot should be considered as a 'spoilt ballot' and the program should also count the number of spoilt ballots