## Ceng 241 Lab Work 7

**Operator Overloading II**: overloading the subscript operator and Composition: Objects as Members of Classes

Implement a **Date** class, where the time will be represented with the forms as 23/10/2004 The public interface consists of methods to

- Compute the difference between two Dates by overloading substraction operator
- Compute the addition of two Dates by overloading addition operator
- Compare two dates by overloading "==",">=" and ">" operators
- Overload stream insertion (>>) operator for entering data from keyboard
- Overload stream extraction (<<) operator for displaying data on the screen
- Overload the assignment operator(=) for assigning to Dates

Implement a **Set** class, where a set is an unordered collection of one or more elements with no duplicates. For this exercise, the elements should be **Dates**. The public interface of Set class consists of methods to

- Remove a specified element from a Set
- Enumerate the elements in the Set
- Add a new element to a set using array subscript operator(i.e. overload the subscript operator "operator")
- $\bullet$  Overload stream extraction (<<) operator for displaying data on the screen

Sample Test Program:

```
#include "Set.h"
#include <ctime>
#include <iostream>
using std::endl;
using std::cout;
using std::cin;
```