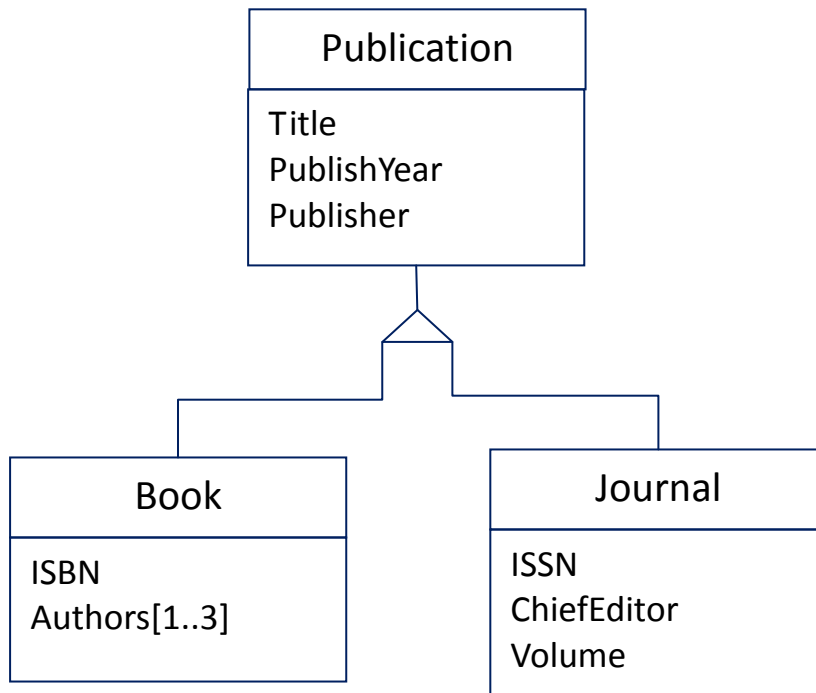# CSCI204/MCS9204/CSCI804
Object and Generic Programming in C++
Laboratory Exercise 6 (Week 7)

Task:

Define the classes in a file **publication.h** according to the UML diagrams as following.

```
            ┌─────────────────────┐
            │     Publication     │
            ├─────────────────────┤
            │ Title               │
            │ PublishYear         │
            │ Publisher           │
            └─────────────────────┘
                      △
            ┌─────────┴─────────┐
┌─────────────────┐     ┌─────────────────────┐
│      Book       │     │      Journal        │
├─────────────────┤     ├─────────────────────┤
│ ISBN            │     │ ISSN                │
│ Authors[1..3]   │     │ ChiefEditor         │
│                 │     │ Volume              │
└─────────────────┘     └─────────────────────┘
```

Define the member functions include initialization constructors (to initialize data members), print functions (print the values of data members to ostream objects) and other necessary member functions for the classes.

Implement the member functions and overloading operators for the classes in a file **publication.cpp.**

Write a driver program include main function in a file **testmain.cpp** to create instances of Book and Journal with suitable values (The values are up to you). Declare two Publication pointers. One points to a Book instance, another one points to a Journal instance. Use the base class pointers to access the print function of the derived classes to print out all values.

You testing results may looks like following:

A book:
Title: Object Oriented Programming Using C++
Published in 2009
Publisher: Course Technology
ISBN: 978-1-4239-0257-7
Authors: Jore Smith James Bond

A journal:

Submission:

You should submit the files of the task to the server by 11:59 PM on Friday, 11 September 2015 via command:

submit –u your-user-name –c CSCI204 –a L6 publication.h publication.cpp testmain.cpp

and input your password.

Make sure that you use the correct file names. The UNIX system is case sensitive. You must submit all files in one *submit* command line.

After submit your assignment successfully, please check your email of confirmation. You should keep this email for the reference.

You would receive ZERO of the marks if your program codes could not be compiled correctly.

Later submission will not be accepted. Submission via e-mail is NOT acceptable.

End of Specification