

# Object Oriented Programming

## Term Project

### BSCS-3A – Fall 2016

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You need to develop a complete working application in C++ as a part of your term project. This may be an individual effort or a group contribution as per your personal preferences. In case of a group project, the maximum group size is to be two individuals only. Please make sure that your application should be an Object Oriented based solution to a problem employing the maximum concepts of Object Oriented Programming.

You are free to take 'help' (and not copy+paste) from the Internet and other resources as long as you clearly refer to them in your program.

Properly comment your program and use good programming practices (Proper indenting, meaningful variable and function names etc.)

#### **Submission/Viva:**

You will need to demonstrate your application in the second last lab session of the current semester. A viva voce will also be conducted regarding the application you have developed. This viva will also be considered as the final viva of your lab. In addition, **submit a report of your project comprising a brief description of the project, the project design (Class Diagram) and snippets of your code.**

**Note:** The project will contribute significantly to your final grade. It has weight in the theory as well as lab grade so you need to put in some good effort.

**Title of the project needs to be submitted by 23<sup>rd</sup> November 2016.**

#### **Submit Titles at:**

<https://docs.google.com/forms/d/e/1FAIpQLScpOE0Hv7Avi8QfeuXu8JCe4zDg7Kqbe7wz8k5fD5PTU3VL8Q/viewform>

#### **Catalog:**

In an attempt to facilitate the choice of term projects, please find below few example problems that you could pick. The provided list by no means is exhaustive and the sole purpose of this document is to give you an idea about the scope expected from the project. You are free to pick any of these and discuss the requirements further or pick any other project of your own choice provided the scale/scope is at least 4 to 5 times the scale of your regular assignments.

Some example problems are listed in the following.

- A matrix manipulation system.
- An event management application to assist event managers in scheduling and organization of events.
- Application to enter, edit, store and retrieve information regarding any of Sportsmen, Flights, Theaters/Movies, Exams, Documents/Books etc.
- A system to manipulate and convert between different number systems with rich features for the binary numbers
- A program to manipulate different Mathematical functions/series.
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