# CSE 108 (Object Oriented Programming Sessional)
## L-1, T-2, January 2023 Term

## Offline 4: Simple java program on Scanner, Array, Class and Command Line Arguments

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## Specification

In this offline, you will implement a terminal base Festival App in java. This app will store information related to some festival organized by students at a university. A festival consists of some events and students participate in those events. As a skeletal code, you are given some java files (in the 'src' folder) representing classes that encapsulate objects related to a typical student festival. The list of the files are as follows.

1. **Student**: this class manages student related information
2. **Event**: this class manages event related information
3. **FestivalManager**: this class encapsulates a festival and provide interfaces for adding events, registering students to events, etc.
4. **FestivalApp**: this is the driver class that holds the _main_ function. Use this class to run the app.

You are required to complete the java files as per the instructions given in these files. Each task you need to complete is specified in a comment block starting with the string "Task:" followed by a description of the task. You need to write code at appropriate places as per these task specifications.

To run the program, use the following sample command from the terminal:

**java FestivalApp "CSE Fest 2023" "2023-07-20" 10**

Sample input and output for the program is provided in another file named 'Sample_IO.pdf'. In this file the user inputs are colored red for illustration purposes.

Since providing input in the terminal is inconvenient and time-consuming for large input data, you can expedite it by supplying input from a file. With that end, you are provided with a simple input file titled 'input.txt'. Don't worry as you need not learn java file I/O to use this file. Rather, just run the following command and all the input will be consumed from the given file.

**java FestivalApp "CSE Fest 2023" "2023-07-20" 10 < input.txt**

**Submission Deadline (for all sections): Friday, August 04, 2023, 10:00 PM**

**For any further query, mail to: khaledshahriar@cse.buet.ac.bd**