Student's Roll No.		–			–			–				

ST. XAVIER'S COLLEGE
(AUTONOMOUS)

1st. SEMESTER EXAMINATION
NOVEMBER - DECEMBER 2013
M.Sc. Computer Science

CMSM 4157
SET - II

LABORATORY 2
(OBJECT ORIENTED PROGRAMMING LAB)

Thursday, 12th December 2013 1:30 pm to 4:30 pm

Time allowed : **3 hours**

Full Marks : **80**

Instructions:

- Of the questions attempted, the answers to only the first required number of questions (as stipulated in the question paper) will be evaluated. **So please do not attempt extra questions**.
- Use fountain pen or ball-point pen of **blue** or **black ink**.
- Answer in your own words as far as practicable.
- Do not write anything on the Question paper other than your Roll No.

(Answer **ANY ONE** question.)

1. Write a program in Java to find out the frequency of the words ending with ".java" present in a set of words passed as command line arguments. After this, replace ".java" with ".txt".

   [**Hint**: abc xyz.java pqr mnp.java **- >**

   Frequency is : 2

   abc xyz.txt pqr mnp.txt]

2. Write a class to implement a calculator program using Exception Handling.

3. Write a Java program to take a sentence as an input. Now replace all the occurrences of a particular word in that sentence by another, both of which are to be passed as command line arguments.

4. Write a class called Book which will store different information related to the books. Save this class in a package called Bookinfo. Write another class called Library which will inherit Book class and store the number of copies required for each book and book lending information. Store this class in a separate package called Lib. Perform the following operations on these classes:

   (i) Find the number of available copies of a particular book.

   (ii) Find the number of copies that has already been lended for a particular book.

   Marks Distribution:

   Program Code – 45

   Sample Output(s) – 15

   Viva – 20

Only the program code and the sample output(s) are to be written in the answerscript.

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