

OBJECT ORIENTED PROGRAMMING

BATCH – A [MONDAY NOVEMBER 04, 2019: 3:00 PM – 6:00 PM]

ASSIGNMENTS – 08

CODE: Assign08

NOTES:

- i) Create a .zip file following the file name convention: If roll number is abc & assignment code is: Assign08 then use the following file name convention: Assign08abc.zip
If roll number is 171 & code is Assign08, then file name should be Assign08171.zip
- ii) Strictly follow the file naming convention.
- iii) Use Random Number generator wherever necessary

PROBLEMS

[Total Marks: 40]

A zip file namely, sof-dataset-sample.zip is can be downloaded from the course website. This file has 100 search pages related to various Questions posted in StackOverflow.com website. You have to extract the information from each search page.

Each search page has information about 50 questions and each question has two parts:

- i. Question posted by a user (that are hyperlinked)
- ii. User Name of the person who posted that question (his user id is also hyperlinked)

1) [Marks: 10] Create a class namely StackOverflow that has the following attributes:

- a. Question
- b. Link to the actual Question
- c. Tags
- d. Number of views
- e. Number of Answers
- f. User ID who posted the question
- g. Date and time of the question
- h. Link to the User Profile
- i. Snippet of the answers
- j. Any other information, you can visualize in these search results

Apply suitable constructor overloading to create and store information in a suitable collection framework.

2) [Marks: 10] Create a class for each user namely UserProfileSO which will have their credentials like gold, silver and bronze batches. Use method overloading to write different methods to search for a user having a specific number of badges (may be gold, silver or bronze)

3) [Marks: 10] Apply Inheritance in such a way that tags could be in a superclass and questions and user details may appear in the subclass. You can use an appropriate data structure or a collection library as needed.

4) [Marks: 10] Write a method (also Method overloading) to create a graph using a specific tag as an argument. For example, user may give a tag as follows: “ios” or “jquery”.

You may extend this to work for any number of tags (array of tags)

This method has to print the follows:

Tag: ios

Notes:

jezrael (34, 458, 515)

JeroenJK (1, 16, 36)

S471 (0, 12, 21)

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