**Core-java machine test.**

Create a java program, with two components, a **supplier** and **consumer**.

Supplier’s responsibility is to provide ‘random integer values’ in ‘random time intervals’ to consumer.

Consumer is responsible to receive data provided by supplier in the same order and add it to a binary tree. When all the data is passed and processed, consumer should print the data of binary tree in visually tree format.

Supplier’s ‘random time interval’ should be dynamically calculated which can be between 1 and 5 second(s). A total of 10 randomly generated integer elements can be passed on to the consumer.

**Maximum** number of **thread instances** which can be initialized in the solution is **three**.

Spirit of the solution will be in the functioning of a binary tree and inter-thread communication.

Validation of solution will be done based on

- optimality of the data structures being used and its usage.

- optimality of thread handling.

- code structuring and packaging.

- coding standards.

Solution must be a core-java project.

Solution must be shared as a zip file of the project.

Usage of 3rd party components outside JDK packaging is prohibited.

The name of the class with "public static void main" must be shared alongside the solution.

An error-free and ready-to-run solution is expected as a solution.