<u>Case study for TDD java Session</u>
This assignment is to develop a few functionalities of a data backup application using TDD with JUNIT4

The user stories to be implemented are as follows
1. As a backup administrator, I want to be able to take the backup of a file or directory so that the data loss can be avoided

2. As a backup administrator, I want to be able to take the backup in three different modes as

   a. Normal backup
   b. Differential back up
   c. Incremental backup

   So that the backup is available in the required efficient manner.

   The details of three backup modes are as under

   a. **Normal Backup**: In this mode the files and or directories will be simply backed up without considering the existence of earlier copies of the same. This is blind backup.

   b. **Differential Backup**: In this mode the files and or directories which are not available at backup location only will be backed up.

   c. **Incremental backup**: In this mode the time-stamp of the backed up files/directories will be compared with current files/directories and the files/directories with latest time-stamp will be kept in backup.

3. Development setup: Windows XP with JDK1.5/1.6,Eclipse-Jee-Indigo,CVS Server, unit 4.9,Cruise-Control 2.0.1,Apache Ant, RDBMS server oracle9/10 or MySql5.

4. Steps for assignment

5. Write the test class in test package with a test method to exercise the BackupManager class for testing the file backup.

6. Run the test..let it fail first time..The red bar will be shown

7. Write the fake implementation code in the BackupManager class.(e.g. sysout)

8. Run the test to see the green bar.

9. Write the actual code to backup the file and run the test again to see the green bar.

10. Write the test to verify the file backup done earlier and each time make the green bar displayed.

11. Iterate through the steps similar to above to incrementally develop the above two user stories.

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