MSC COMPUTER SCIENCE SEM-III ELECTIVE-I: CYBER AND INFORMATION SECURITY-II Practical -01

```
//Program to take SQL Database Backup
import java.text.SimpleDateFormat;
import java.util.Date;
public class MysqlBackUpProgram {
     public static void main(String[] args) {
     // NOTE: Date format
     SimpleDateFormat sdf = new SimpleDateFormat("yyyy-MM-dd
HH:mm:ss.SSS");
     // NOTE: Creating Database Constraints
     String dbHost = "localhost"; //host server IP
     String dbPort = "3306";
       String dbName = "mscdb";
       String dbUser = "root";
       String dbPass = "maurya";
       8.0\\bin\\mysqldump";
       NOTE: Here the backup folder is for saving inside
       String dumpSavePath = "D:\\BackupFolder\\";
       NOTE: Here the backup is saved in a folder called backup with the
name backup.sql
       String fileName = "backUpFile "+sdf.format(new
Date().getTime())+".sql";
      NOTE: call for backup process
       Backupdbtosql (dbHost, dbPort, dbUser, dbPass, dbName, dumpExe,
dumpSavePath, fileName);
     }
     public static void Backupdbtosql (String host, String port, String
user, String password, String dbName, String dumpExe, String
dumpSavePath, String fileName)
         try {
         // NOTE: Date format
           SimpleDateFormat sdf = new SimpleDateFormat("yyyy-MM-dd
HH:mm:ss.SSS");
             String batchCommand;
                (password != "") {
                    //only backup the data not included create database
                    batchCommand = dumpExe +
                             " -h " + host +
                             " --port " + port +
                             " -u " + user +
                             " --password=" + password +
                             " --add-drop-database -B " + dbName +
                             " -r \"" + dumpSavePath + "" + "backup"+new
Date().getTime()+".sql";
             } else {
                  batchCommand = dumpExe +
                             " -h " + host +
                             " --port " + "3306" +
                             " -u " + user +
                             " --add-drop-database -B " + dbName +
                             " -r \"" + dumpSavePath + "" + "backup"+new
Date().getTime()+".sql";
             }
```

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```
//
             NOTE: Executing the command here
             System.out.println("Execute Commond - " +batchCommand);
             System.out.println("Processing.. "+ "STARTED "
+sdf.format(new Date()));
             Date sDate = new Date();
             Process runtimeProcess =
Runtime.getRuntime().exec(batchCommand);
             int processComplete = runtimeProcess.waitFor();
             System.out.println("Processing.. "+ "END " +sdf.format(new
Date()));
             Date eDate = new Date();
             long duration = eDate.getTime() - sDate.getTime()
             int seconds=(int) ((duration/1000)%60);
             long minutes=((duration-seconds)/1000)/60;
             System.err.println("TOTAL TIME : " + minutes +" minutes ::
");
             System.err.print(seconds +" seconds :: ")
             System.err.print(duration +" milliseconds");
             NOTE: processComplete=0 if correctly
                                                   executed, will contain
other values if not
             if (processComplete == 0) {
                 System.out.println("Backup Complete");
                 System.out.println("Backup Failure");
         } catch (Exception ex) \
           System.err.println(ex.getMessage());
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}
```