Marlon Torres – Coding Exercise

```
import java.util.logging.Logger
import java.text.SimpleDateFormat

class Accn{
    static void main(args) {
        try
        {
            def dt = new Date()
            def sdf = new SimpleDateFormat("MM/dd/yyyy HH:mm:ss")
            def strt = sdf.format(dt)
            def listfilename = [] //declare list
            //enter directory path
            print "Enter a directory: "
            def path = System.console().readLine()
            //enter text to search
            print "Search text: "
            def text = System.console().readLine()
            //enter text to seach
            print "Replace with: "
            def reptext = System.console().readLine()
            //enter backup directory path
            print "Enter a backup file directory: "
            def bupath = System.console().readLine()
            //read directory and sub-directory files
            new File(path).eachFileRecurse { file ->
            if(file.text.contains(text)) //used for searching text
            {
                  //backup the file before modification
                  //if file exist delete first then save new
                  def backupfile  = new File(bupath + "\\" + file.name)
//declare backup path

                  if(backupfile.exists()) //check file if exists in backup
location
                  {
                        backupfile.delete() //delete existing files
                        backupfile << file.text //save
                  }
                  else { backupfile << file.text } //save only if not exist

                  def wordtext = file.text.replaceAll(String.valueOf(text),
reptext) //replace the searched text/word
                  file.write(wordtext) //write
                  listfilename.add(file.name) //add output to a list
                  }}
```

Marlon Torres – Coding Exercise

```
            if(!listfilename.isEmpty()) //if text found and updated
            {
                  //display message
                  println "$text replaced by $reptext.\nDo you want to show
updated file/s? (Y/N)"
                  def ynoption = System.console().readLine()
                  if(ynoption == "Y" || ynoption == "y")
                  {
                        //display files containing the text
                        println listfilename
                  }
            }
            else {print "$text not found!"} //if no text found

            def enDs = sdf.format(dt)

            Logger logger = Logger.getLogger("")
            logger.info ("Start: $strt\nDirectory: $path\nSearched text:
$text\nReplaced by: $reptext\nBackup: $bupath\nEnd: $enDs") //logs
        }
        catch(Exception ex) //catch error
        {
            Logger logger = Logger.getLogger("") //error logs
            logger.info (ex.message)
        }
    }
}
```

How to run it:

1. Run the program
   - > groovy .\script1.groovy
2. Enter a directory path
   - > ex. D:\Systems\Groovy\ACCN1\TestFolder
3. Search the text/word you want to replace.
   - > ex. test
4. Enter the text/word that will replace the searched text/word.
   - > ex. keyword
5. *Enter a directory to back up the files before replacing.*
   - > ex. D:\Systems\Groovy\ACCN1\bufolder
6. *A confirmation message will show that the searched text was replaced and will ask if you want to show the files that has been updated/affected.*
7. *Type "Y" or "y" to show affected/updated files.*