SECURE CODING CSE2010

K Roma Pai -18BCE7165

Scheduled Tasks and Command Prompt Programs

QUESTION

Checking disk partitions from command prompt

OUTPUT

```
C:\Users\romap>diskpart
```

```
DISKPART> list disk

  Disk ###  Status          Size     Free     Dyn  Gpt
  --------  -------------  -------  -------  ---  ---
  Disk 0    Online          931 GB  6144 KB        *
```

```
DISKPART> select disk 0

Disk 0 is now the selected disk.

DISKPART> list partition

  Partition ###  Type              Size     Offset
  -------------  ----------------  -------  -------
  Partition 1    System            260 MB  1024 KB
  Partition 2    Reserved           16 MB   261 MB
  Partition 3    Primary           913 GB   277 MB
  Partition 4    Recovery          980 MB   914 GB
  Partition 5    Primary            16 GB   915 GB
```

```
DISKPART> list vol

  Volume ###  Ltr  Label        Fs     Type        Size     Status     Info
  ----------  ---  -----------  -----  ----------  -------  ---------  --------
  Volume 0    E                        DVD-ROM        0 B  No Media
  Volume 1    C    Windows      NTFS   Partition   913 GB  Healthy    Boot
  Volume 2    D    RECOVERY     NTFS   Partition    16 GB  Healthy
  Volume 3                      FAT32  Partition   260 MB  Healthy    System
  Volume 4         Windows RE   NTFS   Partition   980 MB  Healthy    Hidden
```

QUESTION

Find your browser installation location

CODE

```
where /R c:\ *.exe | findstr brave.exe
```

OUTPUT

```
C:\Users\romap>where /R c:\ *.exe | findstr brave.exe
c:\Program Files\BraveSoftware\Brave-Browser\Application\brave.exe
```

QUESTION

Task to experiment: Use the cmd prompt to identify and locate the files and delete the same.

CODE

```java
import java.io.File;
import java.io.FileInputStream;
import java.io.IOException;
import java.math.BigInteger;
import java.security.MessageDigest;
import java.security.NoSuchAlgorithmException;
import java.util.HashMap;
import java.util.LinkedList;
import java.util.List;
import java.util.Map;

public class testDelete {
    private static MessageDigest messageDigest;
    static {
        try {
            messageDigest = MessageDigest.getInstance("SHA-512");
        } catch (NoSuchAlgorithmException e) {
```

```java
                throw new RuntimeException("cannot initialize SHA-512 hash
function", e);
        }
    }
    public static void findDuplicateFiles(Map<String, List<String>> filesList,
File directory) {
        for (File dirChild : directory.listFiles()) {
            // Iterate all file sub directories recursively
            if (dirChild.isDirectory()) {
                findDuplicateFiles(filesList, dirChild);
            } else {
                try {
                    // Read file as bytes
                    FileInputStream fileInput = new FileInputStream(dirChild);
                    byte fileData[] = new byte[(int) dirChild.length()];
                    fileInput.read(fileData);
                    fileInput.close();
                    // Create unique hash for current file
                    String uniqueFileHash = new BigInteger(1,
messageDigest.digest(fileData)).toString(16);
                    List<String> identicalList = filesList.get(uniqueFileHash);
                    if (identicalList == null) {
                        identicalList = new LinkedList<String>();
                    }
                    // Add path to list
                    identicalList.add(dirChild.getAbsolutePath());
                    // push updated list to Hash table
                    filesList.put(uniqueFileHash, identicalList);
                } catch (IOException e) {
                    throw new RuntimeException("cannot read file " +
dirChild.getAbsolutePath(), e);
                }
            }
        }
    }

    public static void main(String[] args) {
        if (args.length < 1) {
            System.out.println("Please supply a directory path");
            return;
        }
        File dir = new File(args[0]);
        if (!dir.isDirectory()) {
            System.out.println("Supplied directory does not exist.");
            return;
        }
        Map<String, List<String>> lists = new HashMap<String, List<String>>();
        testDelete.findDuplicateFiles(lists, dir);
        for (List<String> list : lists.values()) {
```

```
        if (list.size() > 1) {
            System.out.println("\n");
            for (String file : list) {
                System.out.println(file);
                File fileobj=new File(file);
                fileobj.delete();
            }
        }
    }
    System.out.println("\n");
    }
}
```
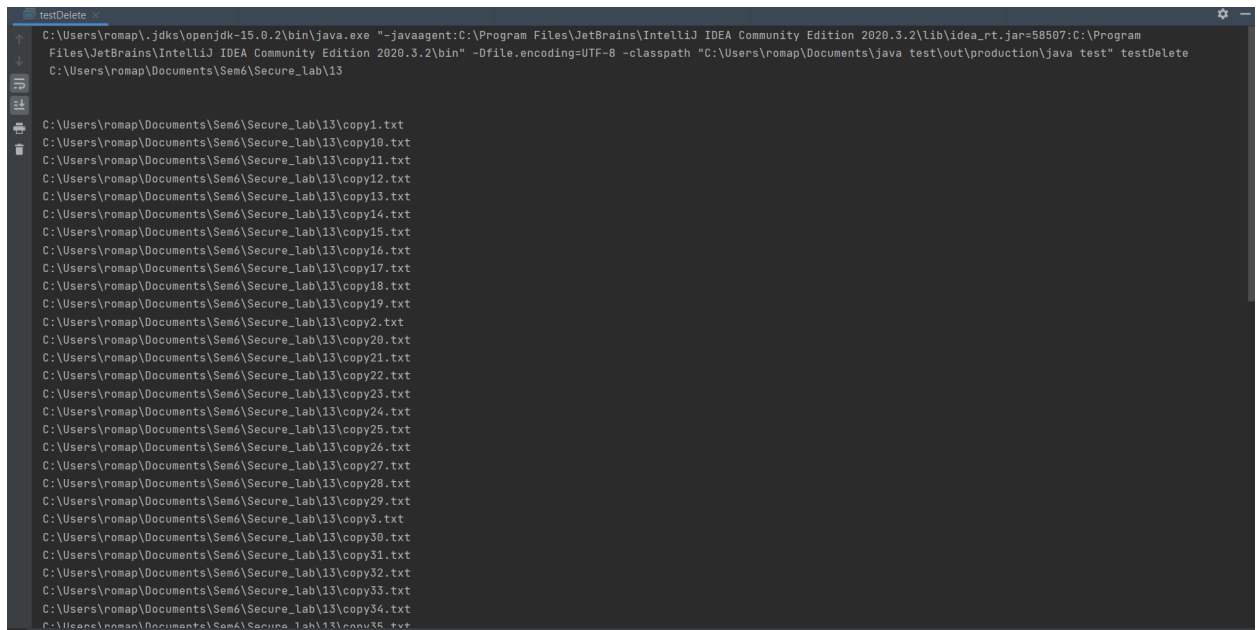
OUTPUT

QUESTION

Write a file replication code to copy the same file for 50 times on the same directory.

CODE

```
FOR /L %A IN (1 1 50) DO (copy original.txt copy%A.txt)
```

OUTPUT

```
C:\Users\romap\Documents\Sem6\Secure_lab\13> FOR /L %A IN (1 1 50) DO (copy original.txt copy%A.txt)
```

```
C:\Users\romap\Documents\Sem6\Secure_lab\13>(copy original.txt copy1.txt )
        1 file(s) copied.

C:\Users\romap\Documents\Sem6\Secure_lab\13>(copy original.txt copy2.txt )
        1 file(s) copied.

C:\Users\romap\Documents\Sem6\Secure_lab\13>(copy original.txt copy3.txt )
        1 file(s) copied.

C:\Users\romap\Documents\Sem6\Secure_lab\13>(copy original.txt copy4.txt )
        1 file(s) copied.

C:\Users\romap\Documents\Sem6\Secure_lab\13>(copy original.txt copy5.txt )
        1 file(s) copied.
```

QUESTION

Check the scheduled task using schtasks

CODE

```
schtasks
```

OUTPUT

```
Command Prompt                                                              —    □    ✕

C:\Users\romap\Documents\Sem6\Secure_lab\13>schtasks

Folder: \
TaskName                                Next Run Time          Status
====================================== ====================== ===============
HPAudioSwitch                           N/A                    Running
HPCeeScheduleForromap                   03-03-2021 23:27:00    Ready
HPJumpStartLaunch                       N/A                    Running

Folder: \Hewlett-Packard
TaskName                                Next Run Time          Status
====================================== ====================== ===============
INFO: There are no scheduled tasks presently available at your access level.

Folder: \Hewlett-Packard\HP Support Assistant
TaskName                                Next Run Time          Status
====================================== ====================== ===============
HP Support Solutions Framework Updater - N/A                   Ready
Product Configurator                    N/A                    Ready

Folder: \Microsoft
TaskName                                Next Run Time          Status
====================================== ====================== ===============
INFO: There are no scheduled tasks presently available at your access level.

Folder: \Microsoft\OneCore
TaskName                                Next Run Time          Status
====================================== ====================== ===============
INFO: There are no scheduled tasks presently available at your access level.
```

QUESTION

Create a task name "Reg.no_Task1" to run on a specific time

CODE

```
schtasks /create /sc daily /tn "Mytasks\18bce7165_task1" /tr
"c:\windows\system32\notepad.exe" /st 15:33
```

OUTPUT

```
C:\Users\romap\Documents\Sem6\Secure_lab\13>schtasks /create /sc daily /tn "Mytasks\18bce7165_task1" /tr "c:\windows\sys
tem32\notepad.exe" /st 15:33
SUCCESS: The scheduled task "Mytasks\18bce7165_task1" has successfully been created.
```

QUESTION

‣ Change the time of the scheduled task

CODE

```
schtasks /change /tn "Mytasks\18bce7165_task1" /st 16:00
```

OUTPUT

```
C:\Users\romap\Documents\Sem6\Secure_lab\13>schtasks /change /tn "Mytasks\18bce7165_task1" /st 16:00
Please enter the run as password for romap: *********

SUCCESS: The parameters of scheduled task "Mytasks\18bce7165_task1" have been changed.
```

QUESTION

Delete the scheduled task

CODE

```
schtasks /delete /tn "Mytasks\18bce7165_task1"
```

OUTPUT

```
C:\Users\romap\Documents\Sem6\Secure_lab\13>schtasks /delete /tn "Mytasks\18bce7165_task1"
WARNING: Are you sure you want to remove the task "Mytasks\18bce7165_task1" (Y/N)? y
SUCCESS: The scheduled task "Mytasks\18bce7165_task1" was successfully deleted.
```

QUESTION

Schedule an another task to run only on Weekdays

CODE

```
schtasks /create /sc weekly /d mon,tue,wed,thu,fri /tn
"Mytasks\18bce7165_task1" /tr "c:\windows\system32\notepad.exe"
/st 15:33
```

OUTPUT

```
C:\Users\romap\Documents\Sem6\Secure_lab\13>schtasks /create /sc weekly /d mon,tue,wed,thu,fri /tn "Mytasks\18bce7165_task1
" /tr "c:\windows\system32\notepad.exe" /st 15:33
SUCCESS: The scheduled task "Mytasks\18bce7165_task1" has successfully been created.
```

QUESTION

Schedule an another task to run only on Weekends

CODE

```
schtasks /create /sc weekly /d sat,sun /tn
"Mytasks\18bce7165_task2" /tr "c:\windows\system32\notepad.exe"
/st 15:33
```

OUTPUT

```
C:\Users\romap\Documents\Sem6\Secure_lab\13>schtasks /create /sc weekly /d sat,sun /tn "Mytasks\18bce7165_task2" /tr "c:\wi
ndows\system32\notepad.exe" /st 15:33
SUCCESS: The scheduled task "Mytasks\18bce7165_task2" has successfully been created.
```

<div align="right">

K Roma Pai
18BCE7165
13|02|2021

</div>