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1  =====
2  OS1 Week 09: Lab 09 Sample Solutions
3  =====
4  -----
5  Question 1: myCourse1.bat
6  -----
7  @ECHO off
8  ECHO SWDev > mycourses1.log
9  ECHO OS >> mycourses1.log
10 ECHO Maths >> mycourses1.log
11 TYPE mycourses1.log
12
13 -----
14 Question 2: myCourse2.bat
15 -----
16 @ECHO off
17 ECHO Contents of mycourse2.log
18 ECHO %1 > mycourses2.log
19 ECHO %2 >> mycourses2.log
20 ECHO %3 >> mycourses2.log
21 TYPE mycourses2.log
22
23 -----
24 Question 3: findCourse.bat
25 -----
26 @ECHO off
27 FIND /c /i "%1" mycourses2.log
28
29 -----
30 Question 4: findCourse2.bat
31 -----
32 @ECHO OFF
33 FIND /c /i "%1" %2
34
35 -----
36 Question 5: delFile.bat
37 -----
38 @ECHO off
39
40 REM 1. Send a string to a file called FileToDelete.txt
41 ECHO This is test string > FileToDelete.txt
42
43 REM 2. Check if the file exists
44 IF EXIST FileToDelete.txt (
45     ECHO FileToDelete.txt exists
46 ) ELSE (
47     ECHO FileToDelete.txt does not exist
48 )
49
50 REM 3. Redirect the contents of FileToDelete.txt to FileToKeep.txt
51 TYPE FileToDelete.txt > FileToKeep.txt
52
53 REM 4. Informs the user that FileToDelete will be deleted.
54 ECHO.
55 ECHO The file FileToDelete.txt is about to be deleted.
56 ECHO.
57 PAUSE
58
59 REM 5. Delete the file FileToDelete.txt
60 DEL FileToDelete.txt
61
62 REM 6. Check that the file FileToDelete.txt no longer exists.
63 IF EXIST FileToDelete.txt (
64     ECHO FileToDelete.txt exists.  Opps!
65 ) ELSE (

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66      ECHO Confirmed: FileToDelete.txt does not exist
67  )
68
69  Rem 7. Display the contents of FileToKeep.txt on screen.
70  ECHO The contents of FileToKeep.txt are:
71  ECHO.
72  TYPE FileToKeep.txt
73
74  -----
75  Question 6: lookup.bat
76  -----
77  @ECHO off
78  FIND /i "%1" %2
79
80  -----
81  Question 7 - Sample Answer
82  -----
83
84  @ECHO OFF
85  IF EXIST %2 (
86      FIND /c /i "%1" %2
87  ) ELSE (
88      ECHO The file specified does not exist. Exiting the batch file now
89  )
90
91  -----
92  QUESTION 8 - Sample Answer
93  -----
94
95  Create a text file (called towns.txt) and add some towns in Ireland along with their county on
the same line. You may use the following if you wish.
96
97  Abbeyleix    Laois
98  Ardfert      Kerry
99  Ballina      Mayo
100 Kells        Kilkenny
101 Rosslare     Wexford
102 Westport     Mayo
103 Tullow       Carlow
104 Quilty       Clare
105 Naas         Kildare
106 Laragh       Wicklow
107 Ferbane      Offaly
108 Newcastle    Dublin
109
110 On the command line, use the FIND command to:
111 a. Display which county Kells is located in.
112     Answer: FIND "Kells" towns.txt
113 b. Display all towns outside Dublin.
114     Answer: FIND /v "Dublin" towns.txt
115 c. Display the number of listed towns in County Mayo.
116     Answer: FIND /c "Mayo" towns.txt
117 d. Display all listed towns in Wexford.
118     Answer: FIND /i "Wexford" towns.txt
119
120 -----
121 QUESTION 9 - Sample Answer
122 -----
123
124 Using the file towns.txt, create a new file called towns_sorted.txt which contains all towns
sorted alphabetically by town.
125 [HINT you must use the SORT command in conjunction with redirection.]
126
127 Answer: sort < towns.txt > towns_sorted.txt
128

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129 -----
130 QUESTION 10 - Sample Answer
131 -----
132
133 Use the HELP and the FIND commands to identify the windows console command to display or set
134 windows environmental variables.
135
136 Answer:  help | find /i "variables"
137 -----
138 QUESTION 11 - Sample Answer
139 -----
140 @ECHO off
141 FIND /i "%1" %2
142
143 -----
144 QUESTION 12 - Sample Answer
145 -----
146
147 For each of the commands below:
148     write down what (exactly) you think the command will do.
149     Write down the expected output to be displayed by the command.
150     Then run the command and verify if you were correct.
151
152 Recall:
153 The * wildcard will match any sequence of characters
154     (0 or more, including NULL characters)
155
156 The ? wildcard will match a single character
157     (0 or 1, including NULL at the end of a filename)
158
159 For more information, visit:
160 https://ss64.com/nt/syntax-wildcards.html
161
162 1.  dir t*.txt
163
164     18 Mar 2025  12:07           13 t1.txt
165     18 Mar 2025  12:07           13 t2.txt
166     18 Mar 2025  12:07           13 t3.txt
167     18 Mar 2025  12:07          13 tears.txt
168     18 Mar 2025  12:11           13 ted.txt
169     18 Mar 2025  12:10           13 tide.txt
170     18 Mar 2025  12:07           13 tile.txt
171     18 Mar 2025  12:07           13 tire.txt
172     18 Mar 2025  12:10          13 tomorrow.txt
173
174           9 File(s)             117 bytes
175
176 2.  dir t?.txt
177
178     18 Mar 2025  12:07           13 t1.txt
179     18 Mar 2025  12:07           13 t2.txt
180     18 Mar 2025  12:07           13 t3.txt
181
182           3 File(s)             39 bytes
183
184 3.  dir t???.txt
185
186     18 Mar 2025  12:07           13 t1.txt
187     18 Mar 2025  12:07           13 t2.txt
188     18 Mar 2025  12:07           13 t3.txt
189     18 Mar 2025  12:11           13 ted.txt
190     18 Mar 2025  12:10           13 tide.txt
191     18 Mar 2025  12:07           13 tile.txt
192     18 Mar 2025  12:07           13 tire.txt
193
194           7 File(s)             91 bytes

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193 4.  dir ti?.txt
194
195     File Not Found
196
197 5.  dir ti??.txt
198
199     18 Mar 2025  12:10      13 tide.txt
200     18 Mar 2025  12:07      13 tile.txt
201     18 Mar 2025  12:07      13 tire.txt
202                3 File(s)      39 bytes
203
204 6.  dir ???.txt
205
206     18 Mar 2025  12:07      13 t1.txt
207     18 Mar 2025  12:07      13 t2.txt
208     18 Mar 2025  12:07      13 t3.txt
209                3 File(s)      39 bytes
210
211 7.  dir ????.txt
212
213     18 Mar 2025  12:07      13 t1.txt
214     18 Mar 2025  12:07      13 t2.txt
215     18 Mar 2025  12:07      13 t3.txt
216     18 Mar 2025  12:11      13 ted.txt
217                4 File(s)     52 bytes
218
219 8.  dir *e.*
220
221     18 Mar 2025  12:08      13 smile.txt
222     18 Mar 2025  12:10      13 tide.txt
223     18 Mar 2025  12:07      13 tile.txt
224     18 Mar 2025  12:07      13 tire.txt
225                4 File(s)     52 bytes
226
227 9.  dir *i*.txt
228
229     18 Mar 2025  12:08      13 smile.txt
230     18 Mar 2025  12:10      13 tide.txt
231     18 Mar 2025  12:07      13 tile.txt
232     18 Mar 2025  12:07      13 tire.txt
233                4 File(s)     52 bytes
234
235 10. dir ?e?.txt
236
237     18 Mar 2025  12:11      13 ted.txt
238                1 File(s)     13 bytes
239
240 11. dir *r?.txt
241
242     18 Mar 2025  12:07      13 tears.txt
243     18 Mar 2025  12:07      13 tire.txt
244                2 File(s)     26 bytes
245
246 12. dir t*r*.txt
247
248     18 Mar 2025  12:07      13 tears.txt
249     18 Mar 2025  12:07      13 tire.txt
250     18 Mar 2025  12:10      13 tomorrow.txt
251                3 File(s)     39 bytes
252
253 13. dir *d?.txt
254
255     18 Mar 2025  12:11      13 ted.txt
256     18 Mar 2025  12:10      13 tide.txt
257                2 File(s)     26 bytes

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258
259 14. dir ?e*.txt
260
261      18 Mar 2025 12:07      13 tears.txt
262      18 Mar 2025 12:11      13 ted.txt
263              2 File(s)      26 bytes
264
265 15. dir *o*o*o*
266
267      18 Mar 2025 12:10      13 tomorrow.txt
268              1 File(s)      13 bytes
269
270 16. dir *o?o*o?.*
271
272      18 Mar 2025 12:10      13 tomorrow.txt
273              1 File(s)      13 bytes
```