

```
1
2 QUESTION 1
3 vidhya@LAPTOP-9TF8PBEC:~$ pwd
4 /home/vidhya
5 vidhya@LAPTOP-9TF8PBEC:~$ cd
6 vidhya@LAPTOP-9TF8PBEC:~$ mkdir V1
7 vidhya@LAPTOP-9TF8PBEC:~$ cd V1
8 vidhya@LAPTOP-9TF8PBEC:~/V1$ nano 1.txt 2.txt
9 vidhya@LAPTOP-9TF8PBEC:~/V1$ ls
10 1.txt
11 vidhya@LAPTOP-9TF8PBEC:~/V1$ grep "bioinformatics"
12
13 ^C
14 vidhya@LAPTOP-9TF8PBEC:~/V1$ grep "bioinformatics *.*
15 >
16 > ^C
17 vidhya@LAPTOP-9TF8PBEC:~/V1$ nano 2.txt
18 vidhya@LAPTOP-9TF8PBEC:~/V1$ nano 3.txt
19 vidhya@LAPTOP-9TF8PBEC:~/V1$ ls
20 1.txt 2.txt 3.txt
21 vidhya@LAPTOP-9TF8PBEC:~/V1$ grep "bioinformatics" *.*
22 1.txt:bioinformatics
23 1.txt:bioinformatics
24 1.txt:bioinformatics
25 2.txt:bioinformatics
26 3.txt:bioinformatics
27 vidhya@LAPTOP-9TF8PBEC:~/V1$ grep "bioinformatics" *.* | wc -l
28 5
29
30
31 QUESTION 2
32 vidhya@LAPTOP-9TF8PBEC:~/V1$ pwd
33 /home/vidhya/V1
34 vidhya@LAPTOP-9TF8PBEC:~/V1$ cd
35 vidhya@LAPTOP-9TF8PBEC:~$ ls
36 V1
37 vidhya@LAPTOP-9TF8PBEC:~$ /mnt/e
38 -bash: /mnt/e: Is a directory
39 vidhya@LAPTOP-9TF8PBEC:~/V1$ cd /mnt/e
40 vidhya@LAPTOP-9TF8PBEC:/mnt/e$ /mnt/e$ls
41 -bash: /mnt/e: Is a directory
42 vidhya@LAPTOP-9TF8PBEC:/mnt/e$ mnt/e $ls
43 -bash: mnt/e: No such file or directory
44 vidhya@LAPTOP-9TF8PBEC:/mnt/e$ mnt/e $ ls
45 -bash: mnt/e: No such file or directory
46 vidhya@LAPTOP-9TF8PBEC:/mnt/e$ ls
47 '$RECYCLE.BIN' 'Downloads - Shortcut.lnk' 'New Volume (E) - Shortcut.lnk'
48 'System Volume Information'
49 '$RECYCLE.BIN' 'Downloads - Shortcut.lnk' 'New Volume (E) - Shortcut.lnk'
50 'System Volume Information' errorlogfile.txt
51 vidhya@LAPTOP-9TF8PBEC:/mnt/e$ cat errorlogfile.txt
52 2024-07-11 12:01:34 INFO User logged in
53 2024-07-11 12:02:41 ERROR Database connection failed
54 2024-07-11 12:03:12 WARNING Disk space low
55 2024-07-11 12:04:53 ERROR Failed to load configuration
56 2024-07-11 12:05:01 INFO File uploaded successfully
57 2024-07-11 12:06:45 ERROR User authentication failed
58 2024-07-11 12:07:22 INFO System shutdown initiated
59 2024-07-11 12:08:30 ERROR Unable to save file
60 2024-07-11 12:09:19 WARNING High memory usage
```

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60 2024-07-11 12:10:10 INFO User logged out
61 vidhya@LAPTOP-9TF8PBEC:/mnt/e$ grep "ERROR" errorlogfile.txt | wc -l
62 4
63 vidhya@LAPTOP-9TF8PBEC:/mnt/e$ grep "ERROR" errorlogfile.txt |sort +
64 sort: cannot read: +: No such file or directory
65 vidhya@LAPTOP-9TF8PBEC:/mnt/e$ grep "ERROR" errorlogfile.txt |sort +1
66 -2|cat>err1.txt
67 vidhya@LAPTOP-9TF8PBEC:/mnt/e$ cat err1.txt
68 2024-07-11 12:02:41 ERROR Database connection failed
69 2024-07-11 12:04:53 ERROR Failed to load configuration
70 2024-07-11 12:06:45 ERROR User authentication failed
71 2024-07-11 12:08:30 ERROR Unable to save file
72 vidhya@LAPTOP-9TF8PBEC:/mnt/e$ cd
73
74 QUESTION 3
75 vidhya@LAPTOP-9TF8PBEC:~$ cd V1
76 vidhya@LAPTOP-9TF8PBEC:~/V1$ ls
77 1.txt 2.txt 3.txt V1
78 vidhya@LAPTOP-9TF8PBEC:~/V1$ ls -l 1.txt
79 -rwx----- 1 vidhya vidhya 80 Jul 14 19:56 1.txt
80 vidhya@LAPTOP-9TF8PBEC:~/V1$ chmod 040 1.txt
81 vidhya@LAPTOP-9TF8PBEC:~/V1$ ls -l 1.txt
82 ----r----- 1 vidhya vidhya 80 Jul 14 19:56 1.txt
83 vidhya@LAPTOP-9TF8PBEC:~/V1$ cd
84
85
86
87
88 QUESTION 4
89 vidhya@LAPTOP-9TF8PBEC:~$ mkdir dept
90 vidhya@LAPTOP-9TF8PBEC:~$ cd dept
91 vidhya@LAPTOP-9TF8PBEC:~/dept$ mkdir fin pen mktg
92 vidhya@LAPTOP-9TF8PBEC:~/dept$ cd fin
93 vidhya@LAPTOP-9TF8PBEC:~/dept/fin$ mkdir exp inc
94 vidhya@LAPTOP-9TF8PBEC:~/dept/fin$ cd ..
95 vidhya@LAPTOP-9TF8PBEC:~/dept$ cd fin
96 vidhya@LAPTOP-9TF8PBEC:~/dept/fin$ cd exp
97 vidhya@LAPTOP-9TF8PBEC:~/dept/fin/exp$ touch ent.txt postage.txt
98 vidhya@LAPTOP-9TF8PBEC:~/dept/fin/exp$ cd ..
99 vidhya@LAPTOP-9TF8PBEC:~/dept/fin$ cd inc
100 vidhya@LAPTOP-9TF8PBEC:~/dept/fin/inc$ touch fees.txt sales.txt
101 vidhya@LAPTOP-9TF8PBEC:~/dept/fin/inc$ cd ..
102 vidhya@LAPTOP-9TF8PBEC:~/dept/fin$ cd pers
103 -bash: cd: pers: No such file or directory
104 vidhya@LAPTOP-9TF8PBEC:~/dept/fin$ cd ..
105 vidhya@LAPTOP-9TF8PBEC:~/dept$ cd pers
106 -bash: cd: pers: No such file or directory
107 vidhya@LAPTOP-9TF8PBEC:~/dept$ cd pen
108 vidhya@LAPTOP-9TF8PBEC:~/dept/pen$ mkdir admin pay
109 vidhya@LAPTOP-9TF8PBEC:~/dept/pen$ cd admin
110 vidhya@LAPTOP-9TF8PBEC:~/dept/pen/admin$ touch exp.txt reco.txt
111 vidhya@LAPTOP-9TF8PBEC:~/dept/pen/admin$ cd ..
112 vidhya@LAPTOP-9TF8PBEC:~/dept/pen$ cd pay
113 vidhya@LAPTOP-9TF8PBEC:~/dept/pen/pay$ touch ded.txt add.txt
114 vidhya@LAPTOP-9TF8PBEC:~/dept/pen/pay$ cd ..
115 vidhya@LAPTOP-9TF8PBEC:~/dept/pen$ cd..
116 cd..: command not found
117 vidhya@LAPTOP-9TF8PBEC:~/dept/pen$ cd ..
118 vidhya@LAPTOP-9TF8PBEC:~/dept$ cd mktg
119 vidhya@LAPTOP-9TF8PBEC:~/dept/mktg$ touch salesinfo.txt pur.txt
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120 vidhya@LAPTOP-9TF8PBEC:~/dept/mktg$ cd ..
121 vidhya@LAPTOP-9TF8PBEC:~$ tree dept
122 dept
123 |
124 |   fin
125 |   |   exp
126 |   |   |   ent.txt
127 |   |   |   postage.txt
128 |   |   inc
129 |   |   |   fees.txt
130 |   |   |   sales.txt
131 |   mktg
132 |   |   pur.txt
133 |   |   salesinfo.txt
134 |   pen
135 |   |   admin
136 |   |   |   exp.txt
137 |   |   |   reco.txt
138 |   |   pay
139 |   |   |   add.txt
140 |   |   |   ded.txt
141
142 7 directories, 10 files
143 vidhya@LAPTOP-9TF8PBEC:~$ cd dept
144 vidhya@LAPTOP-9TF8PBEC:~/dept$ cp dept/pen/pay/ded.txt dept/mktg/deduc.txt
145 cp: cannot stat 'dept/pen/pay/ded.txt': No such file or directory
146 vidhya@LAPTOP-9TF8PBEC:~/dept$ cp dept/pen/pay/ded.txtdept/mktg/deduc.txt
147 cp: missing destination file operand after 'dept/pen/pay/ded.txtdept/mktg/deduc.txt'
148 Try 'cp --help' for more information.
149 vidhya@LAPTOP-9TF8PBEC:~/dept$ cp dept/pen/pay/ded.txt dept/mktg/deduc.txt
150 cp: cannot stat 'dept/pen/pay/ded.txt': No such file or directory
151 vidhya@LAPTOP-9TF8PBEC:~/dept$ cp dept/pen/pay/ded.txt dept/mktg/ded.txt
152 cp: cannot stat 'dept/pen/pay/ded.txt': No such file or directory
153 vidhya@LAPTOP-9TF8PBEC:~/dept$ cd ..
154 vidhya@LAPTOP-9TF8PBEC:~$ cp dept/pen/pay/ded.txt dept/mktg/deduc.txt
155 vidhya@LAPTOP-9TF8PBEC:~$ ln -s$(pwd)/dept/mktg/deduc dept/pen/admin/deduc_link
156 ln: invalid option -- '/'
157 Try 'ln --help' for more information.
158 vidhya@LAPTOP-9TF8PBEC:~$ ln -s $(pwd)/dept/mktg/deduc dept/pen/admin/deduc_link
159 vidhya@LAPTOP-9TF8PBEC:~$ cp dept/pen/pay/ded.txt dept/mktg/deduc.txt
160 vidhya@LAPTOP-9TF8PBEC:~$ cp dept/mktg/salesinfo.txt dept/pen/pay/
161 vidhya@LAPTOP-9TF8PBEC:~$ mv dept/pen/pay/salesinfo.txt dept/fin/exp/sinfo.txt
162 vidhya@LAPTOP-9TF8PBEC:~$ cp dept/pen/pay/salesinfo.txt dept/fin/
163 cp: cannot stat 'dept/pen/pay/salesinfo.txt': No such file or directory
164 vidhya@LAPTOP-9TF8PBEC:~$ cp dept/fin/exp/sinfo.txt dept/fin
165 vidhya@LAPTOP-9TF8PBEC:~$ rm dept/fin/exp/sinfo.txt
166 vidhya@LAPTOP-9TF8PBEC:~$ rmv dept/fin/exp/postage.txt dept/pen/pexp.txt
167 Command 'rmv' not found, but there are 16 similar ones.
168 vidhya@LAPTOP-9TF8PBEC:~$ mv dept/fin/exp/postage.txt dept/pen/pexp.txt
169 vidhya@LAPTOP-9TF8PBEC:~$ ln -s$(pwd)/dept/pen/pexp.txt dept/pen/pexp_link
170 ln: invalid option -- '/'
171 Try 'ln --help' for more information.
172 vidhya@LAPTOP-9TF8PBEC:~$ ln -s $(pwd)/dept/pen/pexp.txt dept/pen/pexp_link
173 vidhya@LAPTOP-9TF8PBEC:~$ rm dept/pen/pexp.txt
174 vidhya@LAPTOP-9TF8PBEC:~$ tree dept
175 dept
176 |
177 |   fin
178 |   |   exp
179 |   |   |   ent.txt
180 |   |   inc
181 |   |   |   fees.txt
182 |   |   |   sales.txt

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181 |   └─ sinfo.txt
182 |   └─ mktg
183 |       └─ deduc.txt
184 |       └─ pur.txt
185 |       └─ salesinfo.txt
186 |   └─ pen
187 |       └─ admin
188 |           └─ deduc_link -> /home/vidhya/dept/mktg/deduc
189 |           └─ exp.txt
190 |           └─ reco.txt
191 |       └─ pay
192 |           └─ add.txt
193 |           └─ ded.txt
194 |   └─ pexp_link -> /home/vidhya/dept/pen/pexp.txt
195
196 7 directories, 13 files
197
198 vidhya@LAPTOP-9TF8PBEC:~$ cd vidhya
199 -bash: cd: vidhya: No such file or directory
200 vidhya@LAPTOP-9TF8PBEC:~$ cut -d ',' -f 2,4 covid_19.csv > extracted_columns.csv
201 cut: covid_19.csv: No such file or directory
202 vidhya@LAPTOP-9TF8PBEC:~$ cut -d ',' -f 2,4 covid.csv > extracted_columns.csv
203 vidhya@LAPTOP-9TF8PBEC:~$ sort extracted_columns.csv | uniq > unique_rows.csv
204 vidhya@LAPTOP-9TF8PBEC:~$ mv unique_rows.csv unique_data.csv
205 mv: missing destination file operand after 'unique_rows.csv unique_data.csv'
206 Try 'mv --help' for more information.
207 vidhya@LAPTOP-9TF8PBEC:~$ mv unique_rows.csv data.csv
208 vidhya@LAPTOP-9TF8PBEC:~$ nano data.csv
209 vidhya@LAPTOP-9TF8PBEC:~$ cat data.csv
210 Afghanistan,67.709953
211 Albania,20.1683
212 Algeria,1.6596
213 Andorra,1.5218
214 Angola,17.8739
215 Antigua and Barbuda,-61.7964
216 Argentina,-63.6167
217 Armenia,45.0382
218 Australia,115.8605
219 Australia,130.8456
220 Australia,138.6007
221 Australia,144.9631
222 Australia,147.3272
223 Australia,149.0124
224 Australia,151.2093
225 Australia,153.0251
226 Austria,14.5501
227 Azerbaijan,47.5769
228 Bahamas,-78.035889
229 Bahrain,50.55
230 Bangladesh,90.3563
231 Barbados,-59.5432
232 Belarus,27.9534
233 Belgium,4.469936
234 Belize,-88.4976
235 Benin,2.3158
236 Bhutan,90.4336
237 Bolivia,-63.5887
238 Bosnia and Herzegovina,17.6791
239 Botswana,24.6849
240 Brazil,-51.9253
241 Brunei,114.7277

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242	Bulgaria,25.4858
243	Burkina Faso,-1.5616
244	Burma,95.956
245	Burundi,29.9189
246	Cabo Verde,-23.0418
247	Cambodia,104.9167
248	Cameroon,11.5021
249	Canada,-106.4509
250	Canada,-116.5765
251	Canada,-124.8457
252	Canada,-127.6476
253	Canada,-135
254	Canada,-57.6604
255	Canada,-63.4168
256	Canada,-63.7443
257	Canada,-66.4619
258	Canada,-73.5491
259	Canada,-85.3232
260	Canada,-98.8139
261	Central African Republic,20.9394
262	Chad,18.7322
263	Chile,-71.543
264	China,101.487
265	China,102.7103
266	China,104.2861
267	China,106.1655
268	China,106.8748
269	China,107.874
270	China,108.7881
271	China,108.8701
272	China,109.7453
273	China,111.7088
274	China,112.2707
275	China,112.2922
276	China,113.4244
277	China,113.55
278	China,113.9448
279	China,114.2
280	China,114.9042
281	China,115.7221
282	China,116.1306
283	China,116.4142
284	China,117.2264
285	China,117.323
286	China,117.9874
287	China,118.1498
288	China,119.455
289	China,120.0934
290	China,121.4491
291	China,122.6085
292	China,126.1923
293	China,127.7615
294	China,85.2401
295	China,88.0924
296	China,95.9956
297	Colombia,-74.2973
298	Comoros,43.3333
299	Congo (Brazzaville),15.8277
300	Congo (Kinshasa),21.7587
301	Costa Rica,-83.7534
302	Cote d'Ivoire,-5.5471

303	Country/Region,Long
304	Croatia,15.2
305	Cuba,-77.781167
306	Cyprus,33.4299
307	Czechia,15.473
308	Denmark,-6.9118
309	Denmark,9.5018
310	Djibouti,42.5903
311	Dominica,-61.371
312	Dominican Republic,-70.1627
313	Ecuador,-78.1834
314	Egypt,30.802498
315	El Salvador,-88.8965
316	Equatorial Guinea,10.2679
317	Eritrea,39.7823
318	Estonia,25.0136
319	Eswatini,31.4659
320	Ethiopia,40.4897
321	Fiji,178.065
322	Finland,25.748151
323	France,-53.1258
324	France,-56.3159
325	France,-61.0242
326	France,-61.551
327	France,-62.8333
328	France,-63.0501
329	France,149.4068
330	France,165.618042
331	France,2.2137
332	France,45.166244
333	France,55.5364
334	Gabon,11.6094
335	Gambia,-15.3101
336	Georgia,43.3569
337	Germany,10.451526
338	Ghana,-1.0232
339	Greece,21.8243
340	Greenland,-42.6043
341	Grenada,-61.679
342	Guatemala,-90.2308
343	Guinea,-9.6966
344	Guinea-Bissau,-15.1804
345	Guyana,-58.93018
346	Haiti,-72.2852
347	Holy See,12.4534
348	Honduras,-86.2419
349	Hungary,19.5033
350	Iceland,-19.0208
351	India,78.96288
352	Indonesia,113.9213
353	Iran,53.688046
354	Iraq,43.679291
355	Ireland,-7.6921
356	Israel,34.851612
357	Italy,12.56738
358	Jamaica,-77.2975
359	Japan,138.252924
360	Jordan,36.51
361	Kazakhstan,66.9237
362	Kenya,37.9062
363	Kosovo,20.902977

364	Kuwait,47.481766
365	Kyrgyzstan,74.766098
366	Laos,102.495496
367	Latvia,24.6032
368	Lebanon,35.8623
369	Lesotho,28.2336
370	Liberia,-9.429499
371	Libya,17.228331
372	Liechtenstein,9.55
373	Lithuania,23.8813
374	Luxembourg,6.1296
375	Madagascar,46.869107
376	Malawi,34.3015
377	Malaysia,101.975766
378	Maldives,73.2207
379	Mali,-3.996166
380	Malta,14.3754
381	Mauritania,-10.9408
382	Mauritius,57.552152
383	Mexico,-102.5528
384	Moldova,28.3699
385	Monaco,7.4167
386	Mongolia,103.8467
387	Montenegro,19.37439
388	Morocco,-7.0926
389	Mozambique,35.529562
390	Namibia,18.4904
391	Nepal,84.25
392	Netherlands,-63.0548
393	Netherlands,-68.99
394	Netherlands,-69.9683
395	Netherlands,5.2913
396	New Zealand,174.886
397	Nicaragua,-85.207229
398	Niger,8.081666
399	Nigeria,8.6753
400	North Macedonia,21.7453
401	Norway,8.4689
402	Oman,55.923255
403	Pakistan,69.3451
404	Panama,-80.7821
405	Papua New Guinea,143.95555
406	Paraguay,-58.4438
407	Peru,-75.0152
408	Philippines,121.774017
409	Poland,19.1451
410	Portugal,-8.2245
411	Qatar,51.1839
412	Romania,24.9668
413	Russia,105.318756
414	Rwanda,29.8739
415	Saint Kitts and Nevis,-62.782998
416	Saint Lucia,-60.9789
417	Saint Vincent and the Grenadines,-61.2872
418	San Marino,12.4578
419	Sao Tome and Principe,6.6131
420	Saudi Arabia,45.079162
421	Senegal,-14.4524
422	Serbia,21.0059
423	Seychelles,55.492
424	Sierra Leone,-11.779889

425 Singapore,103.8333  
426 Slovakia,19.699  
427 Slovenia,14.9955  
428 Somalia,46.199616  
429 South Africa,22.9375  
430 South Korea,127.766922  
431 South Sudan,31.307  
432 Spain,-3.74922  
433 Sri Lanka,80.771797  
434 Sudan,30.2176  
435 Suriname,-56.0278  
436 Sweden,18.643501  
437 Switzerland,8.2275  
438 Syria,38.996815  
439 Taiwan\*,121  
440 Tajikistan,71.2761  
441 Tanzania,34.888822  
442 Thailand,100.992541  
443 Timor-Leste,125.727539  
444 Togo,0.8248  
445 Trinidad and Tobago,-61.2225  
446 Tunisia,9.537499  
447 Turkey,35.2433  
448 US,-100  
449 Uganda,32.290275  
450 Ukraine,31.1656  
451 United Arab Emirates,53.847818  
452 United Kingdom,-2.3644  
453 United Kingdom,-3.436  
454 United Kingdom,-4.5481  
455 United Kingdom,-5.3536  
456 United Kingdom,-59.5236  
457 United Kingdom,-62.187366  
458 United Kingdom,-63.0686  
459 United Kingdom,-64.64  
460 United Kingdom,-64.7505  
461 United Kingdom,-71.7979  
462 United Kingdom,-81.2546  
463 Uruguay,-55.7658  
464 Uzbekistan,64.585262  
465 Venezuela,-66.5897  
466 Vietnam,108.277199  
467 West Bank and Gaza,35.2332  
468 Western Sahara,-12.8858  
469 Yemen,48.516388  
470 Zambia,27.849332  
471 Zimbabwe,29.154857  
472 vidhya@LAPTOP-9TF8PBEC:~\$  
473