

Question Paper

Exam Date & Time: 25-Jun-2022 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal School of Information Sciences, Manipal
Second Semester Master of Engineering - ME (VLSI Design) Degree Examination - June 2022

Scripting for VLSI [VLS 5203]

Marks: 100

Duration: 180 mins.

Saturday, June 25, 2022

Answer all the questions.

- 1) Use Metacharacters/Globbering to do the task given below. (10)

Remove all the file whose name contains numeric values.
Using numeric method change the permission for all the .hdd files to "rw-rw-r-".
Create five directories, named unit1, unit2, unit3, unit4 and unit5.
List all the files end with .py
Copy all files that have exactly five characters from /home/test to /home/exam [TLO 1.1] [5x2=10 Marks]
- 2) Complete the following task using GNU/Linux commands and explain the script (10)

Delete the first character from the file.
Print the contents from 3rd line to 5th line.
Count the total number of characters from the file
Find the disk used by /home
Convert all uppercase characters to lower case characters[TLO 1.2] [5x2=10 Marks]
- 3) Sample.txt contains student details as comma separated values. use the .txt file to answer the (10)
following questions using awk and explain the script
Last name, first name, city, cgpa
Jose, Paul, manipal, 8.6
Joe, Oliver, Udupi, 9.6
Smith, Mary, Goa, 9.8
Combine last name and first name
Count the total number of empty lines
List all the student last name end with "e"
Find the average cgpa
Replace "manipal" with "Manipala"[TLO 2.1] [4X2.5=10 Marks]
- 4) Write the sed commands to complete the task (10)

Print all the lines that contains "create_clock" from the file "file.sdc"
Delete all the empty lines from the file "file.sdc"
Replace "date" to "data" from the file "file.sdc" for all the occurrences
Convert all the uppercase characters in to lowercase characters from the file "file.sdc"[TLO 2.2]
[4X2.5=10 Marks]

- 5) Use grep command to perform the following task (10)
- Print all the lines with the pattern "bash"
List all files that consists of the pattern "bash"
Print all the lines other than the pattern "bash"
Print the line which contains pattern "bash" from the file "1.sh" and "5.sh"
Print all the lines which contains only "bash" not "sh"[TLO 2.4] [5X2=10 Marks]
- 6) Use grep command and regular expression to solve the following task (10)
- Print the line which have both "bash and perl".
Print the line that contains "pattern1", "pattern2" or "pattern3".
Print all the lines that end with the pattern "ore".
Print all the lines with at least 40 characters.
Print all the lines that starts with numeric value. [TLO 2.3]
- 7) Write a Perl program (10)
- To get person name and corresponding phone from the user and store in a hash.
Get the name from the user and check whether the name is already exist or not.
Display the name sort by name.
Count total numbers of contacts are there in the hash.[TLO 3.1] [4X2.5=10 Marks]
- 8) Write the following regular expressions and explain using Perl script (10)
- Match a number which is composed only of even digits, including 0
 - Match a number which may be negative or positive, may have a decimal point
 - Match a pattern consists of smaller case characters of 4 characters long.
 - Match the pattern which starts with uppercase character.
- [TLO 3.2] [4x2.5 = 10 Marks]
- 9) Explain file handling in Perl with an example.[TLO 3.3] (10)
- 10) Explain I/O redirection and pipes with appropriate examples. How may the standard error be redirected to a file ?[TLO 1.2] (10)

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