**Assignment 2**

**Related Lab Outcomes:**

**ITL402.3: Use the awk, grep, perl scripts.**

**ITL402.4: Implement shell scripts and sed**

**ITL402.6: Apply networking Unix commands.**

Note: All answers related to commands/scripts should be executed on terminal and screenshot is to be attached as output with description.

1. Explain the networking commands FTP, TFTP and rlogin.
2. Consider a file ‘abc.txt’, with following content. Write the AWK script for the following

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Ram | Chembur | science | 45 | 67 |
| sita | sion | biology | 25 | 56 |
| laxman | bhandup | maths | 19 | 87 |
| geeta | kurla | English | 50 | 23 |
| meeta | dadar | geography | 43 | 11 |
| nita | chembur | history | 21 | 37 |

1. show all the lines/records between the specified range, to be entered by user
2. show all records having the pattern chembur
3. Replace the pattern ‘science’ with ‘Science’
4. Show all the contents of this file with sum of two marks for each student

3. Consider a file ‘abc.txt’, with following content. Write the AWK script for the following

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | jeans | 1000 | 10 | garments |
|  | camera | 5000 | 3 | electronics |
|  | trousers | 1200 | 5 | garments |
|  | laptop | 40000 | 6 | electronics |
|  | cellphone | 8000 | 78 | electronics |
|  | tshirt | 2300 | 12 | garments |

1. Print code of only electronics products
2. Print information of products in range 5000-10000
3. count all electronic products
4. Prints third record in file
5. To print products whose quantity is less than 10

4. Consider a file ‘abc.txt’, with following content. Write the grep command for the following

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Ram | Chembur | science | 45 | 67 |
| sita | sion | biology | 25 | 56 |
| laxman | bhandup | maths | 19 | 87 |
| geeta | kurla | English | 50 | 23 |
| meeta | dadar | geography | 43 | 11 |
| nita | chembur | history | 21 | 37 |

1. To search string ‘kurla’ in the file
2. Find the frequency of string ‘chembur’
3. find the line number of string ‘chembur’

5. Write a shell script to print the specified range of lines from a given file.

6. Write a shell script to sort the file contents in descending order

7. Write a shell script that displays the login names of all users who have logged in.

8. Explain the following commands of sed with examples.

1. To substitute string s1 and s2
2. write an address line to another file
3. change text in current line with new text