**Practical No - 4 (sed editor)**

**Create the file with the name “sed-test” with the following contents: -**

Carrots:veg:1.39:1:n

Milk:Diary:1.89:2:n

Magazine:Sundry:3.50:1:y

Cheese:Diary:4.39:1:n

Sandwich:Deli:3.89:2:y

Onions:Veg:0.89:6:n

Chicken:Meat:4.89:2:n

Newspaper:Sundry:1.00:1:y

Fish:Meat:3.79:3:n

Floorwax:Hshld:4.65:1:y

Melon:Fruit:1.98:3:n

Celery:Veg:1.79:1:n

**Write and execute the commands for the following using sed:**

**1. Display only first three lines.**

**Code:** [tybscit@localhost Desktop]$ sed '3q' sed-test

**Output:**

Carrots:veg:1.39:1:n

Milk:Diary:1.89:2:n

Magazine:Sundry:3.50:1:y

**2. Display line numbers from four to seven.**

**Code:** [tybscit@localhost Desktop]$ sed -n '4,7p' sed-test

**Output:**

Cheese:Diary:4.39:1:n

Sandwich:Deli:3.89:2:y

Onions:Veg:0.89:6:n

Chicken:Meat:4.89:2:n

**3. Display only last line.**

**Code:** [tybscit@localhost Desktop]$ sed -n '$p' sed-test

**Output:** Celery:Veg:1.79:1:n

**4. Display only line number 8.**

**Code:** [tybscit@localhost Desktop]$ sed -n '8p' sed-test

**Output:** Newspaper:Sundry:1.00:1:y

**5. Display lines containing “Onions”.**

**Code:** [tybscit@localhost Desktop]$ sed -n '/Onions/p' sed-test

**Output:** Onions:Veg:0.89:6:n

**6. Display all lines containing “Diary”.**

**Code:** [tybscit@localhost Desktop]$ sed -n '/Diary/p' sed-test

**Output:**

Milk:Diary:1.89:2:n

Cheese:Diary:4.39:1:n

**7. Delete second line.**

**Code:** [tybscit@localhost Desktop]$ sed '2d' sed-test

**Output:**

Carrots:veg:1.39:1:n

Magazine:Sundry:3.50:1:y

Cheese:Diary:4.39:1:n

Sandwich:Deli:3.89:2:y

Onions:Veg:0.89:6:n

Chicken:Meat:4.89:2:n

Newspaper:Sundry:1.00:1:y

Fish:Meat:3.79:3:n

Floorwax:Hshld:4.65:1:y

Melon:Fruit:1.98:3:n

Celery:Veg:1.79:1:n

**8. Delete lines from seven to ten.**

**Code:** [tybscit@localhost Desktop]$ sed '7,10d' sed-test

**Output:**

Carrots:veg:1.39:1:n

Milk:Diary:1.89:2:n

Magazine:Sundry:3.50:1:y

Cheese:Diary:4.39:1:n

Sandwich:Deli:3.89:2:y

Onions:Veg:0.89:6:n

Floorwax:Hshld:4.65:1:y

Melon:Fruit:1.98:3:n

Celery:Veg:1.79:1:n

**9. Delete lines containing “Meat”.**

**Code:** [tybscit@localhost Desktop]$ sed -n '/Meat/d' sed-test

**10. Display lines start at 3 through the first line matching the string “Meat”.**

**Code:** [tybscit@localhost Desktop]$ sed -n '3,/Meat/p' sed-test

**Output:**

Magazine:Sundry:3.50:1:y

Cheese:Diary:4.39:1:n

Sandwich:Deli:3.89:2:y

Onions:Veg:0.89:6:n

Chicken:Meat:4.89:2:n

**11. Delete lines start at 4 through the first line matching the string “Fruit”.**

**Code:** [tybscit@localhost Desktop]$ sed -n '4,/Fruit/d' sed-test

**12. Display lines number at interval of 2 i.e. starting at 1, every other line is output.**

**Code:** [tybscit@localhost Desktop]$ cat -n sed-test|sed -n '1~2p'

**Output:**

1 Carrots:veg:1.39:1:n

3 Magazine:Sundry:3.50:1:y

5 Sandwich:Deli:3.89:2:y

7 Chicken:Meat:4.89:2:n

9 Fish:Meat:3.79:3:n

11 Floorwax:Hshld:4.65:1:y

13

15

**13. Display lines starting at 2 and outputs every third line from there.**

**Code:** [tybscit@localhost Desktop]$ cat -n sed-test|sed -n '2~3p'

**Output:**

2 Milk:Diary:1.89:2:n

5 Sandwich:Deli:3.89:2:y

8 Newspaper:Sundry:1.00:1:y

11 Floorwax:Hshld:4.65:1:y

14 Celery:Veg:1.79:1:n

**14. Display lines starting with “S”.**

**Code:** [tybscit@localhost Desktop]$ sed -n '/^S/p' sed-test

**Output:** Sandwich:Deli:3.89:2:y

**15. Display lines ends with “n”.**

**Code:** [tybscit@localhost Desktop]$ sed -n '/n$/p' sed-test

**Output:**

Carrots:veg:1.39:1:n

Milk:Diary:1.89:2:n

Cheese:Diary:4.39:1:n

Onions:Veg:0.89:6:n

Chicken:Meat:4.89:2:n

Fish:Meat:3.79:3:n

Melon:Fruit:1.98:3:n

Celery:Veg:1.79:1:n

**16. Display lines that are not starting with “C”.**

**Code:** [tybscit@localhost Desktop]$ sed -n '/^C/!p' sed-test

**Output:**

Milk:Diary:1.89:2:n

Magazine:Sundry:3.50:1:y

Sandwich:Deli:3.89:2:y

Onions:Veg:0.89:6:n

Newspaper:Sundry:1.00:1:y

Fish:Meat:3.79:3:n

Floorwax:Hshld:4.65:1:y

Melon:Fruit:1.98:3:n

**17. Display lines that are not ending with “y”.**

**Code:** [tybscit@localhost Desktop]$ sed -n '/[^y]$/p' sed-test

**Output:**

Carrots:veg:1.39:1:n

Milk:Diary:1.89:2:n

Cheese:Diary:4.39:1:n

Onions:Veg:0.89:6:n

Chicken:Meat:4.89:2:n

Fish:Meat:3.79:3:n

Melon:Fruit:1.98:3:n

Celery:Veg:1.79:1:n

**18. Display all lines that are not starting with “v” or “V” in second field.**

**Code:** [tybscit@localhost Desktop]$ cut -d ":" -f2 sed-test|sed -n '/^[vV]/!p'

**Output:**

Diary

Sundry

Diary

Deli

Meat

Sundry

Meat

Hshld

Fruit

**19. Display all lines that are not ending with “y” in second field.**

**Code:** [tybscit@localhost Desktop]$ cut -d ":" -f2 sed-test|sed -n '/y$/!p' sed-test

**Output:**

Carrots:veg:1.39:1:n

Milk:Diary:1.89:2:n

Cheese:Diary:4.39:1:n

Onions:Veg:0.89:6:n

Chicken:Meat:4.89:2:n

Fish:Meat:3.79:3:n

Melon:Fruit:1.98:3:n

Celery:Veg:1.79:1:n

**20. Delete lines containing nothing.**

**Code:** [tybscit@localhost Desktop]$ sed -n '/^$/d' sed-test

**21. Delete all lines containing “2” in third field.**

**Code:** [tybscit@localhost Desktop]$ cut -d f4 sed-test|sed '/2/d' sed-test

**Output:**

Carrots:veg:1.39:1:n

Magazine:Sundry:3.50:1:y

Cheese:Diary:4.39:1:n

Onions:Veg:0.89:6:n

Newspaper:Sundry:1.00:1:y

Fish:Meat:3.79:3:n

Floorwax:Hshld:4.65:1:y

Melon:Fruit:1.98:3:n

Celery:Veg:1.79:1:n

**22. Delete all lines containing “y” in fifth field.**

**Code:** [tybscit@localhost Desktop]$ cut -d f5 sed-test|sed '/y/d' sed-test

**Output:**

Carrots:veg:1.39:1:n

Onions:Veg:0.89:6:n

Chicken:Meat:4.89:2:n

Fish:Meat:3.79:3:n

Melon:Fruit:1.98:3:n

**23. Display all lines that do not start with C.**

**Code:** [tybscit@localhost Desktop]$ sed -n '/^C/!p' sed-test

**Output:**

Carrots:veg:1.39:1:n

Milk:Diary:1.89:2:n

Magazine:Sundry:3.50:1:y

Cheese:Diary:4.39:1:n

Onions:Veg:0.89:6:n

Chicken:Meat:4.89:2:n

Newspaper:Sundry:1.00:1:y

Fish:Meat:3.79:3:n

Floorwax:Hshld:4.65:1:y

Melon:Fruit:1.98:3:n

Celery:Veg:1.79:1:n

**24. Display all lines that are not empty.**

**Code:** [tybscit@localhost Desktop]$ sed -n '/^$/!p' sed-test

**Output:**

Carrots:veg:1.39:1:n

Milk:Diary:1.89:2:n

Magazine:Sundry:3.50:1:y

Cheese:Diary:4.39:1:n

Sandwich:Deli:3.89:2:y

Onions:Veg:0.89:6:n

Chicken:Meat:4.89:2:n

Newspaper:Sundry:1.00:1:y

Fish:Meat:3.79:3:n

Floorwax:Hshld:4.65:1:y

Melon:Fruit:1.98:3:n

Celery:Veg:1.79:1:n

**25. Delete any other line that does not contain the string “Fish”.**

**Code:** [tybscit@localhost Desktop]$ sed -n '/Fish/!d' sed-test

**26. Display lines between the strings “Milk” and “Newspaper”.**

**Code:** [tybscit@localhost Desktop]$ sed -n '/Milk/,/Newspaper/p' sed-test

**Output:**

Milk:Diary:1.89:2:n

Magazine:Sundry:3.50:1:y

Cheese:Diary:4.39:1:n

Sandwich:Deli:3.89:2:y

Onions:Veg:0.89:6:n

Chicken:Meat:4.89:2:n

Newspaper:Sundry:1.00:1:y

**27. Display lines between the string “Sundry” and line number 11.**

**Code:** [tybscit@localhost Desktop]$ sed -n '/Sundry/,11p' sed-test

**Output:**

Magazine:Sundry:3.50:1:y

Cheese:Diary:4.39:1:n

Sandwich:Deli:3.89:2:y

Onions:Veg:0.89:6:n

Chicken:Meat:4.89:2:n

Newspaper:Sundry:1.00:1:y

Fish:Meat:3.79:3:n

Floorwax:Hshld:4.65:1:y

**28. Replace only first occurrence of “Diary” with “DAIRY” in all lines.**

**Code:** [tybscit@localhost Desktop]$ sed 's/Diary/DAIRY/' sed-test

**Output:**

Carrots:veg:1.39:1:n

Milk:DIARY:1.89:2:n

Magazine:Sundry:3.50:1:y

Cheese:DIARY:4.39:1:n

Sandwich:Deli:3.89:2:y

Onions:Veg:0.89:6:n

Chicken:Meat:4.89:2:n

Newspaper:Sundry:1.00:1:y

Fish:Meat:3.79:3:n

Floorwax:Hshld:4.65:1:y

Melon:Fruit:1.98:3:n

Celery:Veg:1.79:1:n

**29. Replace only first occurrence of “Diary” with “DAIRY” in all lines.**

**Code:** [tybscit@localhost Desktop]$ sed 's/3/4/' sed-test

**Output:**

Carrots:veg:1.49:1:n

Milk:Diary:1.89:2:n

Magazine:Sundry:4.50:1:y

Cheese:Diary:4.49:1:n

Sandwich:Deli:4.89:2:y

Onions:Veg:0.89:6:n

Chicken:Meat:4.89:2:n

Newspaper:Sundry:1.00:1:y

Fish:Meat:4.79:3:n

Floorwax:Hshld:4.65:1:y

Melon:Fruit:1.98:4:n

Celery:Veg:1.79:1:n