| 1. | Check whether the given file exists or not. |
| --- | --- |
|  | |
| 2. | Check whether the argument passed from command line is file or  directory. |
|  | |
| 3. List out all empty files in current working directory. Directory may  contain subdirectories also. | |
|  | |
| 4. Give two file names as command line arguments and check both the  files are same or different. If they are same then delete the second file  otherwise suggest why changes are required to make 1st file similar to  second file. | |
|  | |
| 5. Print multiplication table of given number  **Command: chmod +x multiply.sh**  **./multiply.sh** | |
|  | |
| 6. Shell script to check executable rights for all files in the current  directory, if a file does not have the execute permission then make it  executable. | |
|  | |
| 7. Write a shell script for arithmetic calculator using command line  arguments. | |
|  | |
| 8. Write a script to print a given number in reversed order. | |
|  | |
| 9.Write a script to convert string from lower to upper and upper to lower  Case. | |
|  | |
| 10. Shell script to Create a menu as shown below using the case  statement | |
| while true; do  clear  echo "Menu:"  echo "1) List of files"  echo "2) Today's date"  echo "3) Users of system"  echo "4) Processes of user"  echo "5) Display process information (CPU utilization)"  echo "6) Display run-level"  echo "7) Exit"  read -p "Enter your choice: " choice  case $choice in  1)  ls -l  read -p "Press enter to continue..."  ;;  2)  date  read -p "Press enter to continue..."  ;;  3)  who  read -p "Press enter to continue..."  ;;  4)  echo "Enter the username:"  read username  ps -U $username  read -p "Press enter to continue..."  ;;  5)  top  read -p "Press enter to continue..."  ;;  6)  runlevel  read -p "Press enter to continue..."  ;;  7)  echo "Exiting..."  exit 0  ;;  \*)  echo "Invalid choice. Please select a valid option."  read -p "Press enter to continue..."  ;;  esac  done | |
| 11. Write a shell script to perform Memory allocation algorithms  and calculate Internal and External Fragmentation. (First Fit, Best  Fit, Worst Fit) | |
| **Conclusion** : From these exercises, we learned about the commands used in ubuntu  operating system. We got to know about the shell script commands in  ubuntu and how all the files are created, viewed, checked if the file exist  or not and much more. | |