- (i) Simulate the following CPU scheduling algorithms: a) FCFS b) Priority.
- (ii) How do you display the system information in Linux?
- (iii) How do you update the system packages in Linux?
- (iv) How do you install a new package in Linux?
- (v) How do you remove a package in Linux?
- (vi) How do you display the system log messages in Linux?
- (vii) How do you display the manual page for a command in Linux?
- (viii) How do you change the network configuration in Linux?
- (ix) How do you display the list of installed packages in Linux?
- (x) How do you install a package in Linux?



- (i) Simulate the following CPU scheduling algorithms. a) SJF b) Round Robin
- (i) How do you view the routing table in Linux?
- (ii) How do you add a route to the routing table in Linux?
- (iii) How do you delete a route from the routing table in Linux?
- (iv) How do you ping a remote host in Linux?
- (v) How do you display the DNS configuration in Linux?
- (vi) How do you edit the DNS configuration in Linux?
- (vii) How do you display the system information in Linux?
- (viii) How do you shutdown the system in Linux?
- (ix) How do you restart the system in Linux?
- (x) How do you display the current network configuration in Linux?



- (i) Write a C program to simulate producer-consumer problem using Semaphores.
- (ii) How do you create a zip archive in Linux?
- (iii) How do you extract a zip archive in Linux?
- (iv) How do you compress a zip archive in Linux?
- (v) How do you display the network interfaces in Linux?
- (vi) How do you configure a network interface in Linux?
- (vii) How do you view the IP address of a network interface in Linux?
- (viii) How do you create a new user in Linux?
- (ix) How do you delete a user in Linux?
- (x) How do you change the password of a user in Linux?
- (xi) How do you add a user to a group in Linux?
- (xii) How do you remove a user from a group in Linux?
- (xiii) How do you display the members of a group in Linux?



EXPERIMENT No: 04

- (i) Write a C program to simulate the concept of Dining-philosophers problem.
- (ii) How do you extract a tar archive in Linux?
- (iii) How do you compress a tar archive in Linux?
- (iv) How do you give read, write, and execute permissions to a file or directory in Linux?
- (v) How do you remove read, write, and execute permissions from a file or directory in Linux? (vi) How do you delete a file using the rm command in Linux?
- (vii) How do you search for a specific pattern in a file using the grep command in Linux?
- (viii) How do you create a symbolic link in Linux? (
- ix) How do you create a hard link in Linux?
- (x) How do you change the permissions of a file or a directory in Linux?
- (xi) How do you display the permissions of a file or a directory in Linux?



- (i) Simulate the bankers' algorithm for deadlock avoidance.
- (ii) How do you mount a file system in Linux?
- (iii) How do you unmount a file system in Linux?
- (iv) How do you view the contents of a compressed file in Linux?
- (v) How do you extract the contents of a compressed file in Linux?
- (vi) How do you create a compressed file in Linux?
- (vii) How do you create a tar archive in Linux?
- (viii) How do you display the contents of a file in reverse order in Linux?
- (ix) How do you display the contents of a file one page at a time in Linux?
- (x) How do you compress a file or a directory in Linux?
- (xi) How do you decompress a compressed file or a directory in Linux?



- (i) Simulate Bankers Algorithm for Dead Lock Prevention.
- (ii) How do you change the owner of a file or directory in Linux?
- (iii) How do you change the group of a file or directory in Linux?
- (iv) How do you view the running processes in Linux?
- (v) How do you terminate a running process in Linux?
- (vi) How do you check the disk usage of a file system in Linux?
- (vii) How do you check the available disk space in Linux?
- (viii) How do you display the total amount of RAM on the machine in Linux?
- (ix) How do you display the list of running processes in Linux?
- (x) How do you terminate a running process in Linux?
- (xi) How do you search for a specific text within a file in Linux?
- (xii) How do you search for a file with a specific name in Linux?



- (i) Simulate Resource Allocation Graph for Dead Lock Avoidance.
- (ii) How do you search for a specific string in a file in Linux?
- (iii) How do you create a symbolic link to a file in Linux?
- (iv) How do you display the current date and time in Linux?
- (v) How do you display the current working directory in Linux?
- (vi) How do you create a new user account in Linux?
- (vii) How do you change the password for a user account in Linux?
- (viii) How do you display the current date and time in Linux?
- (ix) How do you display the current user name in Linux?
- (x) How do you display the current working directory in Linux?



- (i) Simulate Wait for Graph for Dead Lock Detection.
- (ii) How do you move a file to a different directory in Linux?
- (iii) How do you copy a file to a different directory in Linux?
- (iv) How do you delete a file in Linux?
- (v) How do you delete a directory in Linux?
- (vi) How do you rename a file in Linux?
- (vii) How do you create a new file in Linux?
- (viii) How do you display the contents of a file on the screen in Linux?
- (ix) How do you display the IP address of the machine in Linux?
- (x) How do you display the available disk space in Linux?



- (i) Create processes using fork() system call program.
- (ii) Replace processes using exec() sytem call program.
- (iii) How do you create a new directory in Linux using the mkdir command in Linux?
- (iv) How do you navigate to the parent directory using the cd command in Linux?
- (v) How do you change the permissions of a file or directory using the chmod command in Linux?
- (vi) How do you display the contents of a file using the cat command in Linux?
- (vii) How do you copy a file from one location to another using the cp command in Linux?
- (viii) How do you list all the files in the current directory in Linux?
- (ix) How do you create a new directory in Linux?
- (x) How do you change file permissions in Linux?



- i) Simulate the following CPU scheduling algorithms. a) Round Robin d) Priority.
- (ii) How do you remove a package in Linux?
- (iii) How do you update the system in Linux?
- (iv) How do you upgrade the system in Linux?
- (v) How do you create an archive of a directory in Linux?
- (vi) How do you extract the contents of an archive in Linux?
- (vii) How do you display the list of active network connections in Linux?
- (viii) How do you display the routing table in Linux?
- (ix) How do you display the system logs in Linux?
- (x) How do you navigate to the home directory in Linux?
- (xi) How do you create a new file in Linux?
- (xii) How do you remove a file in Linux?
- (xiii) How do you remove a directory in Linux?
- (xiv) How do you rename a file in Linux?
- (xv) How do you move a file to a different directory in Linux?
- (xvi) How do you copy a file to a different directory in Linux?

