B.Sc. (H) Computer Science Sem III (CBCS)

C – VI Practical List for Operating Systems

1. Write a program (using fork() and/or exec() commands) where parent and child execute:
    a) same program, same code.
    b) same program, different code.
    c) before terminating, the parent waits for the child to finish its task, both for above mentioned cases a) and b)
2. Write a program to show how multiple fork() system calls work.
3. Write a program to report behaviour of Linux kernel including kernel version, CPU type and model. (CPU information)
4. Write a program to report behaviour of Linux kernel including information on configured memory, amount of free and used memory. (Memory information)
5. Write a program to print file details including owner access permissions, file access time, where file name is given as command line argument.
6. Write a program to copy files using system calls.
7. Write a program to implement FCFS scheduling algorithm.
8. Write a program to implement Round Robin scheduling algorithm.
9. Write a program to implement SJF scheduling algorithm.
10. Write a program to implement non-preemptive priority based scheduling algorithm.
11. Write a program to implement preemptive priority based scheduling algorithm.
12. Write a program to implement SRTF scheduling algorithm.
13. Write a program to calculate sum of n numbers using thread library.
14. Write a program to implement first-fit, best-fit and worst-fit allocation strategies.