K.L.SOCITY’S

GOGTE INSTITUTE OF TECHNOLOGY

UDYAMBAG, BELGAUM

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| EXPT.  NO. | DATE | NAMEOF EXPERIMENT | PAGE  NO. | SIGN |
| 1. |  | To demonstrate UNIX system programming API’s. |  |  |
| 2. |  | Write a C/C++ POSIX compliant program that prints the POSIX defined configuration options supported on any given system using feature test macros |  |  |
| 3. |  | Consider the last 100 bytes as a region. Write a C/C++ program to check whether the region is locked or not. If the region is locked, print pid of the process which has locked. If the region is not locked, lock the region with an exclusive lock, read the last 50 bytes and unlock the region |  |  |
| 4. |  | Write a C/C++ program which demonstrates interposes communication between a reader process and a writer process. Use mkfifo, open, read, write and close APIs in your program. |  |  |
| 5. |  | a) Write a C/C++ program that outputs the contents of its Environment list b) Write a C / C++ program to emulate the unix ln command |  |  |
| 6. |  | Write a C/C++ program to illustrate the race condition. |  |  |
| 7. |  | Write a C/C++ program that creates a zombie and then calls system to execute the ps command to Verify that the process is zombie. |  |  |
| 8. |  | Write a C/C++ program to avoid zombie process by forking twice. |  |  |
| 9. |  | Write a C/C++ program to implement 'system' function. |  |  |
| 10. |  | Write a C/C++ program to set up a real-time clock interval timer using the alarm API. |  |  |