



Budge Budge Institute of Technology
Lab Examination, Odd Semester, 2024- 2025

Stream:	COMPUTER SCIENCE AND ENGINEERING		
Semester:	5th	Year:	3rd
Paper Name:	OPERATING SYSTEM LAB	Paper Code:	PCC-CS592
Full Marks:	60	Duration:	3 hours

- Write a shell program to for basic calculator (using switch-case).
- Write a shell program to count number of vowels and numeric values present in a string.



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- Write a shell program to find greatest and smallest of three input variables.
- Write a shell program to find the prime factors for input variable.



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- Write a shell program to display the table for input variable.
- Write a shell program to find the greatest number of input array.



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- a. Write a shell program to calculate factorial for input variable.
- b. Write a C program to implement FCFS scheduling algorithm.



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- a. Write a shell program to check if input variable is prime number or not.
- b. Write a C program to implement SJF scheduling algorithm.



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- a. Write a shell program to check if input variable is palindrome or not.
- b. Write a shell program to find the smallest number of input array.



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- Write a shell program to check if input variable is Armstrong number or not.
- Write a shell program to create parent process and child process with unique ID using fork().



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- Write a shell program to perform binary search on input array.
- Write a C program to count number of child processes created due to fork().



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- Write a shell program to perform bubble sort on input array.
- Write a shell program to print even and odd numbers of input array.