Operating System Lab

(ETCS -352)

Lab Assessment Sheet

Student Enrollment No: Student Name:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S.No | Experiment | Marks | | | | | Total  marks | Signature with date |
| R1 | R2 | R3 | R4 | R5 |
| 1 | Write a program to implement CPU scheduling for first come first  serve. |  |  |  |  |  |  |  |
| 2 | Write a program to implement CPU scheduling for a shortest job first. |  |  |  |  |  |  |  |
| 3 | Write a program to perform priority scheduling. |  |  |  |  |  |  |  |
| 4 | Write a program to implement CPU scheduling for Round Robin. |  |  |  |  |  |  |  |
| 5 | Write a program for page replacement policy using:  a) LRU b) FIFO c) Optimal. |  |  |  |  |  |  |  |
| 6 | Write a program to implement the first fit, best fit, and worst fit algorithm for memory management. |  |  |  |  |  |  |  |
| 7 | Write a program to implement reader/writer problem using semaphore. |  |  |  |  |  |  |  |
| 8 | Write a program to implement Banker’s algorithm for deadlock avoidance. |  |  |  |  |  |  |  |
| Experiments (Beyond the syllabus) | | | | | | | | |
| 1 | To write about different types of operating systems and steps to install Linux installation. |  |  |  |  |  |  |  |
| 2 | To write about and execute various Linux commands. |  |  |  |  |  |  |  |
| 3 | To write the following shell programs:   * Program to find the greatest of 3 numbers. * Program to find given number is odd or even. * Program to check whether a given number is prime or not. |  |  |  |  |  |  |  |
| 4 | To write the following shell programs:   * Program to check whether the given input is a number or a string. * Program to compute no. of characters/ words in each line of a file. |  |  |  |  |  |  |  |
| 5 | To write the following shell programs:   * Script to check whether a given string is a palindrome. * A script to calculate the average of n numbers. * Script to find the sum of digits of a given number. |  |  |  |  |  |  |  |
| 6 | To write the following shell programs:   * Shell script to calculate the factorial of a number. * Shell script to print Fibonacci series up to given number. |  |  |  |  |  |  |  |

Overall Comments:

Faculty Name:

Signature: