

LAB Assignment No.-11
Operating Systems
(UCS – 303)

Write a program in C/C++/Java to simulate the Banker's algorithm for deadlock avoidance. Consider at least 3 processes in the system, with 4 resource classes having at least one resource instance for each class. Assume the values for Available, Allocation, MAX, and request from particular process from your side. Program must reflect for two cases, where safe sequence exists for one and safe sequence does not exist for another.

LAB Assignment No.-12
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1. Write a program for Fibonacci series.
2. Write a program for factorial of a number.

LAB Assignment No.-13
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1. Write a program to find whether a given year is leap year or not.
2. Write a program to print the line in opposite order.

LAB Assignment No.-14
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1. Read, write and execute permission for a directory.
2. Setting default values for umask.
3. Read command for making script interactive.
4. Command line arguments.
5. Logical operators && AND ||
6. Evaluating expressions using test and []

At least 4 Example programs from the mentioned book and from your own side.

LAB Assignment No.-15
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In details explanation of the following commands and topics:

1. Conditional construct - Case
2. Matching multiple patterns
3. expr – Computational and String handling
4. Looping – While, For