

Develop the Banker's Algorithm for detecting deadlock and perform the following operations.

- Read the No. of Processes, No of Resources & no. of instances for each resources, etc.,
- Display the Need matrix values.
- While performing each allocation display the current availability
- Display the Safe / Unsafe process execution sequence.
- If a request from process P_i arrives for resources, can the request be granted immediately?

1. Write the algorithm for above program
2. Source code of the program
3. Program output