Government Engineering College, Thrissur

CS331 – System Software Lab

Documentation –

Exp4 – Banker's Algorithm for Deadlock Avoidance

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GECT CSE S5

EXPERIMENT 4

Implement the banker's algorithm for deadlock avoidance.

Compilation of Code

- The simulation is run with the help of C programming language.
- There is 1 input text file
  - input.txt
    - first line contains the number of resources
    - second line contains the
    - all line after that are considered as max and allocated values of
    - max and allocated is given on same line
    - contains additional requests of process
    - first value of each line must be the process number
- Inside text file values are tab separated
- Process number starts from 0
- The code is provided in "program.c"
  - Code is tested on
    - Ubuntu 20.04
  - To compile the program, open a terminal and type
    - gcc program.c
  - To run the program, open a terminal and type
    - For Linux shells (bash, zsh, etc.)
      - ./a.out
    - "output.txt" is obtained using output redirection
      - For Linux shells (bash, zsh, etc.)
        - ./a.out | tee output.txt

Output Screenshot