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| **Fr. Conceicao Rodrigues College of Engineering**  **Department of Computer Engineering** | | | |
| **Student’s Roll No** | **9603** | **Students Name** | **Zane Falcao** |
| **Date of Performance** |  | **SE Computer – Div** | **A** |

**Aim:** To study Deadlock detection and Avoidance strategies

**Lab Outcome:**

**CSL403.3:** Understand and apply the concepts of synchronization and deadlocks

**Pre-requirement: Python Programming.**

**Problem Statements:**

WAP for the following.

Inputs: Number of processes, No of Resources, Instances of each resources, Number of resources held by each process , Number of resources needed by each process/Maximum number of resources needed by each process.

Write a menu driven program.

1) Detect if a deadlock exists. Also show the processes involved in deadlock

2) Check if the deadlock can be avoided (using bankers algo.). If yes, give the safe state sequence.

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| **On time Submission(2)** | **Knowledge of Topic(4)** | **Implementation and Demonstraion(4)** | **Total (10)** |
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| **Signature of Faculty** |  | **Date of Submission** |  |

