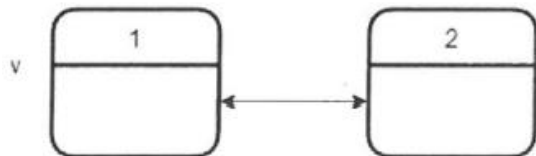
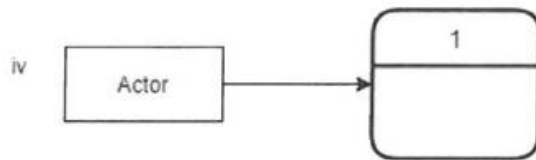
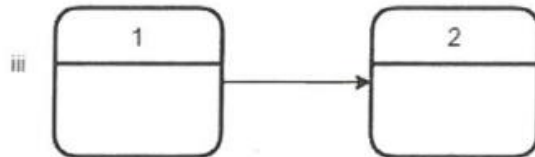
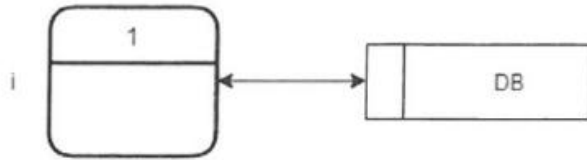


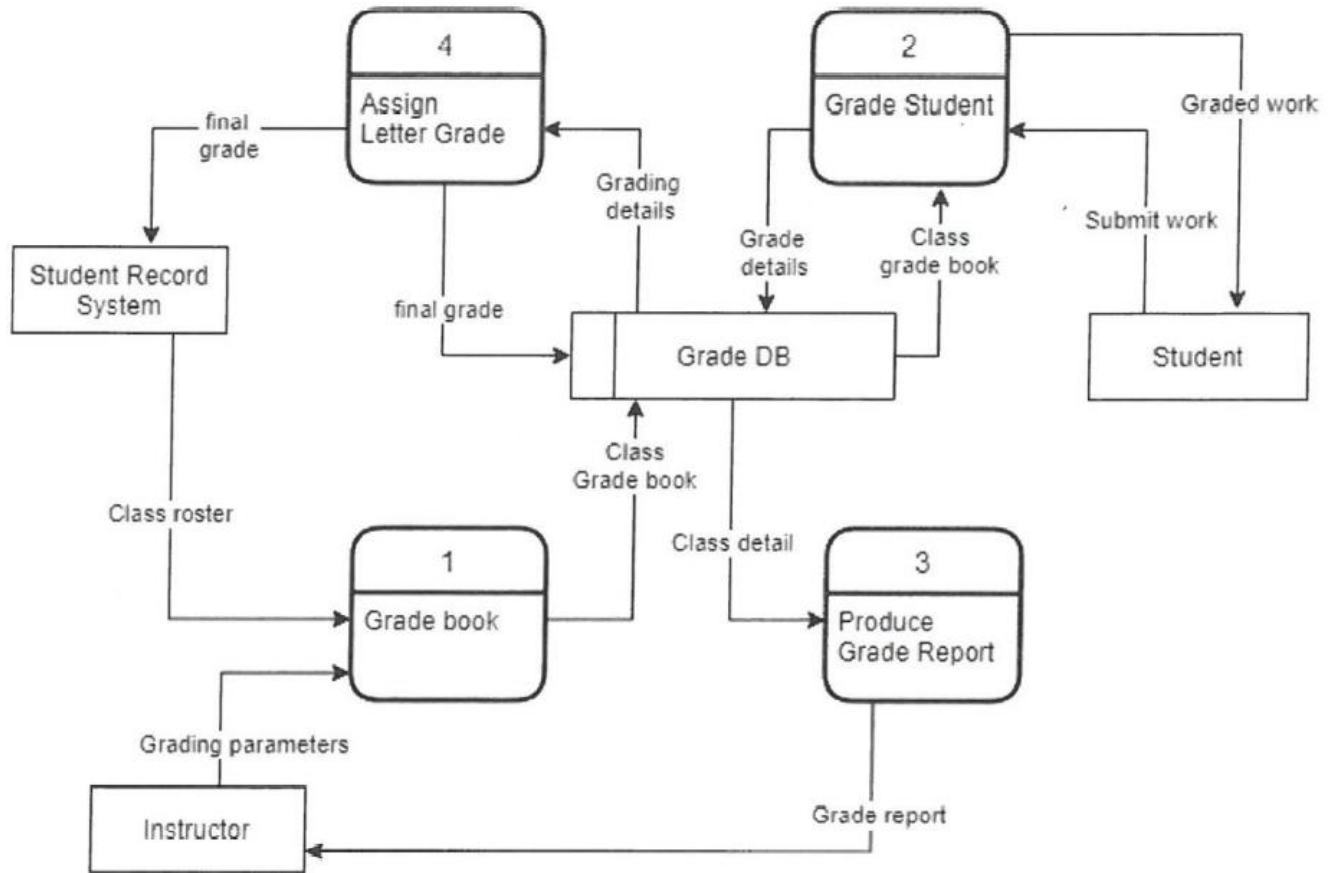
Sample Final Exam Questions – 29/12/2022

Q1. State whether the following transitions are wrong or correct in DFD. Draw the correct one if it is wrong



Q2. Consider the following Level 1 DFD diagram

- Draw a level 0 DFD for this diagram
- Draw a level 2 DFD for process "Grade Student" assuming that a student is graded by checking the grade book for the class, categorize work into project1 or project2, and grade work in different processes.
- Draw a composite state machine diagram for process "Grade Student" as in (b) assuming that other parts of the state machine are already drawn.
- Draw the use case diagram for diagram for the given figure.



- e) Assume that process “Produce Grade Report” uses another process “calculate GPA”, and there are two types of student, Senior and Junior. Update (d) with this information.
- f) If we are to use microservice architecture for this system draw the architecture