1.Design suitable Data structures and implement Pass-I of a two-pass Assembler

2. Design suitable Data structures and implement Pass-2 of a two-pass Assembler

3.Design suitable Data structures and implement Pass-I of a two-pass Macroprocessor

4. Design suitable Data structures and implement Pass-2 of a two-pass Macroprocessor

5. Write a program to simulate FCFS, SJF (Preemptive) Scheduling Algorithms.

6. Write a program to simulate FCFS and Priority Scheduling Algorithms.

7. Write a program to simulate FCFS, Round Robin Scheduling Algorithms.

8. Write a program to simulate SJF, Round Robin Scheduling Algorithms.

9. Write a program to simulate Priority, Round Robin Scheduling Algorithms.

10. Write a program to simulate Priority and SJF Scheduling Algorithms.

11. Write a program to simulate Memory placement strategies using best fit and first fit.

12. Write a program to simulate Memory placement strategies best fit and worst fit.

13. Write a program to simulate Memory placement strategies first fit and next fit.

14. Write a program to simulate Memory placement strategies first fit and worst fit.

15. Write a program to simulate the FIFO Page replacement algorithm.

16. Write a program to simulate the LRU Page replacement algorithm.

17. Write a program to simulate the Optimal Page replacement algorithm.

18. Create a project plan for the railway reservation system

- Specify project name and start (or finish) date
- Identify and define project tasks
- Define the duration for each project task
- Define milestones in the plan
- Define dependency between tasks
- Define project calendar

- Define project resources and specify resource type
- Assign resources against each task and baseline the project plan

19. Execute and monitor project plan for first-year admission of engineering

- Update % complete with current task status
- Review the status of each task
- Compare planned Vs critical path
- Review resources assignment status

20. Generate a dashboard and reports for the library management system

- Dashboard – Project overview, cost overview and upcoming tasks
- Resource reports – over-allocated resources and resource overview

21. Generate dashboard and reports for ticket management system

- Cost reports – Earned value report, resource cost overview and task cost overview
- Progress reports – Critical tasks, milestone report and slipping tasks.