

Checklist:

| Weights → | Must Include (7 x 10 = 70%) | Good to have (4 x 5 = 20%) | Bonus (4 x 2.5 = 10%) |
|------------------------|--|---|--|
| Memory Manager | <input checked="" type="checkbox"/> Stack, Heap allocation | <input checked="" type="checkbox"/> Stack deallocation <input checked="" type="checkbox"/> Heap deallocation | <input type="checkbox"/> Optimized memory allocation |
| Process Manager | <input checked="" type="checkbox"/> Process table <input checked="" type="checkbox"/> Process creation <input checked="" type="checkbox"/> State transition <input checked="" type="checkbox"/> Process termination | <input checked="" type="checkbox"/> Utility functions to get process specific functions | <input type="checkbox"/> Add more states <input type="checkbox"/> Inter-process communication (IPC) |
| Scheduler | <input checked="" type="checkbox"/> Clear policy to scedule <input checked="" type="checkbox"/> Context switch | <input checked="" type="checkbox"/> Configurable time quantum | <input type="checkbox"/> Implement Aging |

Teams:

You are to form a team of 6 students. Each student will be judged for their contribution.

Team naming format: **Series _XX_ Section _X_ Group _XX**

Submission format:

Upload the project according to given format in GitHub or Google Drive and submit the link.

Series _XX_ Section _X_ Group _XX _kacchiOS.zip

```
|── src/
|   ├── memory.c
|   ├── memory.h
|   ├── process.c
|   ├── process.h
|   ├── scheduler.c
|   ├── scheduler.h
|   ├── (other files)
|   └── Makefile
└── docs/
    ├── Checklist.pdf
    └── Project_Report.pdf
└── video/
    └── Demo_Video.mp4
└── README.md
```

🚫 Plagiarism Policy

Zero tolerance for code plagiarism.

Copying from other teams: 0 marks for entire team.

Copying from internet: 0 marks for entire team.

Using AI-generated code: 0 marks for entire team. (You may use AI for understanding).

Collaboration between teams: Not allowed.

Sharing code between teams: Not allowed.