

ID	Email Address	Student Name	Registration No.	Name of all other Group Members/Comma Separated	Registration Numbers of all other Group Members/Comma Separated	Section	Problem Statement	Description
11-1-2025 12:04:49	maneubhavshik@gmail.com	Anubav Ahlit	12411224	Anubav Ahlit, Sonam Khurana, Yuraj Pratap Singh	12411224, 12411330, 12405934	K24DP	Real-Time Process Monitoring Dashboard	Create a graphical dashboard that displays real-time information about process states, CPU usage, and memory consumption. The tool should allow administrators to manage processes efficiently and identify potential issues promptly.
11-1-2025 18:21:01	kashif5singh02@gmail.com	Kashif Singh	12409334	Ahishchek Kumar, Raja Rajeswari Bonita, Kashif Singh	12410692, 12407086, 12405934	K24DP	Energy-Efficient CPU Scheduling Algorithm	Develop a CPU scheduling algorithm that minimizes energy consumption without compromising performance. The algorithm should be suitable for mobile and embedded systems where power efficiency is critical.
11-1-2025 19:23:55	shreyas3006@gmail.com	Shreyas KS	12407112	Pradeeth Reddy Devarapu, Aman Raj Gupta	12410108, 12410262	K24DP	Scalable Thread Management Library	Design a thread management library that supports efficient creation, synchronization, and termination of threads. The library should be scalable to handle thousands of threads concurrently, suitable for high-performance computing applications.
11-1-2025 19:33:30	shivahak30@gmail.com	Shivam Thakur	12411347	Shivam Thakur, Akshit Chandel, Nandani Bhati	12411347, 12407795, 12409467	K24DP	Automated Deadlock Detection Tool	Create a tool that automatically detects potential deadlocks in system processes. The tool should analyze process dependencies and resource allocation to identify circular wait conditions and suggest resolution strategies.
11-2-2025 20:32:50	spurushothamreddy1997@gmail.com	Punushotham	12415521	Punushotham, Sai Siddhartha, Ram Charan Teja	12415521, 12412149, 12407073.	K24DP	Secure Authentication Module for Operating Systems	Create a robust authentication module that integrates with existing operating systems to enhance security. The module should support multi-factor authentication and protect against common vulnerabilities like buffer overflows and trapdoors.
11-3-2025 15:17:08	jaivardhan Rathore20@gmail.com	Jaivardhan Singh Ra	12417323	Jaivardhan Singh Rathore, Abhinav Rawat, Naksh Mehta	12417323, 12412107, 12410555	K24DP	Efficient Page Replacement Algorithm Simulator	Design a simulator that allows users to test and compare different page replacement algorithms (e.g., FIFO, LRU, Optimal). The simulator should provide visualizations and performance metrics to aid in understanding algorithm efficiency.
11-3-2025 17:32:29	gurmisankhalaha16@gmail.com	Gurmisankha Singh	12412116	Sahil, krunal Kishore	12410048, 12412431	K24DP	Comprehensive Inter-Process Communication Framework	Create a distributed file system that ensures data availability and integrity across multiple nodes. The system should incorporate fault tolerance mechanisms to handle node failures gracefully.
11-3-2025 17:59:50	salmoline223@gmail.com	Salmi Santosh more	12409526	Sahil santosh more, nitin sheoran, keshav morekumar	12409526, 12410902, 12407190	K24DP	Distributed File System with Fault Tolerance	Design a simulator that allows users to test and compare different page replacement algorithms (e.g., FIFO, LRU, Optimal). The simulator should provide visualizations and performance metrics to aid in understanding algorithm efficiency.
11-3-2025 18:00:12	rishraj02989@gmail.com	Rishi Raj	12405081	Aroh Singh, Rajan Kushwaha	12410426, 12405087	K24DP	AI-powered Performance Analyzer for OS Processes	Create a tool leveraging AI to analyze the performance of system processes in real-time. Highlight bottlenecks, suggest optimizations, and forecast future resource requirements.
11-3-2025 18:21:02	upendrasinghsoni10@gmail.com	Upendra Singh	12417905	Aryan Gupta, Anupam Kumar	12416450, 12404810	K24DP	Graphical Simulator for Resource Allocation Graphs	Create a visual tool to simulate resource allocation graphs and analyze deadlock scenarios interactively.
11-3-2025 18:31:15	kumarsrujanbham333@gmail.com	Shubham Kumar	12413087	Ritesh Singh, Lucky kuna	12416975, 12413645	K24DP	Real-Time OS Security Event Logger	Create a logger that monitors and records OS-level security events, providing insights into potential vulnerabilities.
11-3-2025 20:05:52	as.anuragdrigh130@gmail.com	Anurag Singh	12408188	Ashay Verma	12409241	K24DP	Adaptive OS Scheduler for Real-Time Systems	Create an adaptive OS scheduler that dynamically adjusts priorities in real-time systems based on workload changes and deadlines.
11-3-2025 20:17:24	chiraghmamt20@iitg.ac.in	Chirag	12409735	Manan, Sheha	12407614, 12418796	K24DP	Real-Time Process Synchronization Analyzer	Create a tool to analyze and resolve process synchronization issues in multi-threaded applications.
11-3-2025 20:32:57	icosuf585@gmail.com	icosuf585@gmail.com	12408631	Pawan Jaiswal, Hemali	12411194, 12406438	K24DP	AI-Powered Directory Management System	Build an AI-based directory management system that categorizes and organizes files efficiently.
11-3-2025 21:11:59	adityarudra009@gmail.com	Aditya Rudra kala	12407794	Rahul, Radheep Singh	12409523, 12409030	K24DP	Efficient Garbage Collection in OS	Design an optimized garbage collection mechanism for memory management in modern OS environments.
11-3-2025 21:44:37	aadhivek@gmail.com	Aadhi vivek	12417574	Anun, Aadhi, Sundaram	12410336, 12417574, 12418864	K24DP	AI-Powered Deadlock Detection System	Design an AI-driven system to predict, detect, and resolve deadlocks in real-time.
11-5-2025 18:49:57	kommarapalaaka2020@gmail.com	K Alakash Chandra	12407177	S Pranay, Y Bhavish	12407113, 12406399	K24DP	Real-Time Memory Allocation Tracker	Create a tool that visualizes memory allocation in real-time, showcasing paging and segmentation.
11-5-2025 21:54:05	ayyashkumar0527@gmail.com	Ayyash Kumar	12410349	Priyanush Pal, Pragna	12409162, 12409372	K24DP	Secure Inter-process Communication Framework	Create a secure interprocess communication framework to prevent unauthorized access.
11-6-2025 04:50:50	fayazparvej17@gmail.com	Fayaz Parvez Sad	12417178	Parkash Dogra, Saksham Sharma	12417984, 12413874	K24DP	AI-Enhanced System Call Optimization	Implement AI techniques to optimize system call processing and reduce latency in OS.
11-6-2025 10:17:21	harshita94@gmail.com	Harshita Gera	12407899	Pujan Chouhan, Aashi Sarraf	12414959, 12409442	K24DP	AI-Based Disk Scheduling Algorithms	Implement and compare AI-based approaches to disk scheduling in operating systems.
11-6-2025 13:24:26	yashbele2005@gmail.com	Yash Bele	12415001	Rahul kumar singh , Pooya Tatte	12413066, 12409118	K24DP	Smart CPU Scheduling Visualizer	Create a simulator where users can visualize CPU scheduling (FCFS, SJF, Priority, RR) with colored Gantt charts and calculate average waiting and turnaround times.