

DEPARTMENT OF INFORMATION TECHNOLOGY

Think,Pair,Share

Course: Operating Systems

Faculty: Mrs. S. Vaheethabanu

Sem: IV

Academic Year: 2022–2023

Method: Think,Pair,Share

Topic : Memory Management

Date: 13.02.2023

No of Students Participated: 49

Methodology Followed

- Instructor introduced core topics in Memory Management such as Paging, Segmentation, Contiguous Allocation, Virtual Memory, and Fragmentation.
- Class was divided into small peer groups; each group was assigned a specific sub-topic.
- Groups conducted research using textbooks, lecture notes, online resources, and system illustrations.
- Students prepared structured materials:
 - Concept explanations
 - Diagrams and flow charts
 - Real-time examples (e.g., memory blocks, frames, page tables)
 - Problem-solving examples
- Groups rehearsed internally to ensure clear understanding and logical flow.
- Each group presented their topic to the class using PPTs/boards.
- Peer groups interacted through Q&A sessions, promoting deeper learning and clarification.
- Instructor supervised to ensure accuracy, filled conceptual gaps, and provided feedback.
- Brief peer-assessment conducted to evaluate clarity, teamwork, and presentation quality.

Outcomes

- Students demonstrated enhanced understanding of memory allocation, paging, segmentation, and virtual memory.
- Improved team collaboration, communication skills, and leadership abilities.
- Gained confidence in presenting and explaining technical topics to peers.

- Developed the ability to analyze and compare different memory management strategies.
- Increased class participation and student engagement throughout the activity.
- Reinforced long-term retention of OS memory concepts due to active involvement.
- Enabled quick identification and correction of misconceptions through peer discussion.
- Improved results in assessments related to memory management due to deeper conceptual clarity.



Participation of Students for Think, pair, Share method subject Operating System on 13.02.2023

► **Relevant POs (Program Outcomes)**

- **PO1 – Engineering Knowledge:**
Understanding memory management concepts strengthens foundational knowledge of computer systems.
- **PO2 – Problem Analysis:**
Students analyze allocation issues, fragmentation problems, and memory optimization scenarios.
- **PO3 – Design/Development of Solutions:**
Ability to propose suitable memory allocation strategies for sample system problems.
- **PO5 – Modern Tool Usage:**
Use of digital presentation tools and OS simulators (if used) enhances technical tool proficiency.
- **PO9 – Individual and Team Work:**
Activity improves teamwork, cooperation, and shared responsibility in peer groups.
- **PO10 – Communication:**
Students develop strong presentation and technical communication skills.
- **PO12 – Life-long Learning:**
Encourages self-learning and adaptability through peer-based exploration of OS concepts.

List of students Attended – II- Year

S.NO	REGISTER NO	STUDENTS NAME	TOPIC
1.	312821205001	Aravind R	Fundamentals of Memory Management
2.	312821205002	Aravinth R	
3.	312821205003	Ashika Jubi S	
4.	312821205004	Dharshan K	
5.	312821205005	Dinakaran Sa	
6.	312821205006	Gokulakrishnan M	Contiguous Memory Allocation
7.	312821205007	Gowtham G	
8.	312821205008	Gowtham M	
9.	312821205009	Harini V	
10.	312821205010	Jagadeesh D	
11.	312821205011	Jerlin Ida J	Non-Contiguous Memory Allocation
12.	312821205012	Jeshina K	
13.	312821205013	Karthikeyan S	
14.	312821205014	Keerthana V	
15.	312821205015	Kirubanithi S	
16.	312821205016	Lakshmi Priya P	Segmentation
17.	312821205017	Mahima Sree S	
18.	312821205018	Mohamed Alifdeen R	
19.	312821205019	Mohamed Ruwaid A	
20.	312821205020	Monesha G	
21.	312821205021	Nandha Kumar A	Virtual Memory Basics
22.	312821205022	Nanthini Priya R	
23.	312821205023	Neha M	
24.	312821205024	Nethaji M	
25.	312821205025	Nishaanth S	
26.	312821205026	Pradeep Kumar Y	Page Replacement Algorithms – I
27.	312821205027	Prashanth B	
28.	312821205028	Praveen M	
29.	312821205029	Preethi M	
30.	312821205030	Premlatha S	
31.	312821205031	Pugazhenth D	
32.	312821205032	Rahul N	

33.	312821205033	Ramkumar K S	Page Replacement Algorithms – II
34.	312821205034	Ramya Devi P	
35.	312821205035	Rexlin Felix S	
36.	312821205036	Rukmangathan D	Memory Allocation Strategies
37.	312821205037	Santhosh G	
38.	312821205038	Saran S K	
39.	312821205040	Sasikumar R	
40.	312821205041	Silambarasan M	
41.	312821205042	Sivaranjini R	Performance Issues in Memory Management
42.	312821205043	Siva Saradhe R	
43.	312821205045	Sri Ranjani K	
44.	312821205046	Surya Prakash S	
45.	312821205047	Tarun S	
46.	312821205048	Venu Aravind M	Application & Case Study
47.	312821205301	Karan Kumar B	
48.	312821205302	Kotipatruni Tirumala Rao	
49.	312821205303	Vishal B	



Course Handling Faculty

Feedback Link: <https://forms.gle/TGimsPgHUZYQM9ZS8>



HOD

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