

1. What is a file ? Distinguish between contiguous and linked allocation methods with the neat diagram.
 2. Explain file allocation methods by taking an example with the neat diagram. Write the advantages and disadvantages.
 3. Explain free space management. Explain typical file control block , with a neat sketch.
 4. Distinguish between single level directory structure and two level directory structure. What are its advantages and disadvantages?
 5. Explain the access matrix model of implementing protection in operating system.
 6. What is Domain of protection? Explain different methods of implementing the access matrix. Explain its strength and weakness.
7. Explain following operations in access matrix with an example for each.
- (i) Domain as objects
 - (ii) Copy rights
 - (iii) owner rights
 - (iv) owner rights
 - (v) Modified access matrix
8. Explain different IPC mechanisms available in LINUX.
 9. With the neat diagram explain the different components of Linux system.
 10. What are the kernel modules? Explain the components of kernel modules.
11. Problems on Page replacement algorithms (FIFO , LRU & Optimal) , Beladys Anomaly , Disk scheduling .