OPERATING SYSTEM
ASSIGNMENT-1

• NAME: G. Naveen Sagar
• Roll No:- 21A31A4447
• Branch:- CSE-DS

1) what is system call? Discuss the types of system call

System call

- programming interface to the services provided by OS
- Typically written in high level language.
- most accessed by program via a high level AP Rather than dives system call use
- system call names used through put this are generic

Types of system calls

General system call are classified into 6 type
They are

1. process control
    - create system terminate process
    - end, abort
    - load, execute
    - Debugger for determing bugs, single step execution
    - locks for managing access to stored data.

2. File management
    - create file, delete file
    - open, close file
    - Read, write, reposition
    - get and set file attribute

3. Device management
    - Request device, Release device
    - Read write Reposition
    - logically attach (or) delch devices

4) information maintenance
   - get time (or) data, set time (or) data
   - get system data, set system data.
   - get and set process, file (or) device attributes

5) communications
   - create, delete communication connection
   - send, receive message.

6) protection
   - control access to recover
   - get and set permission.

a) list briefly describe types of operating system?
most system use a single general-purpose processor
most system wave special-purpose processor as well
Types of operating system
There are several types of operating system. They are'
   - Batch operation system
   - multi programming language
   - multi tasking
   - time sharing OS
   - Distribution OS
   - network OS
   - Real time OS

Batch operating system :- This type of OS does not interact
with the computer directly It is the responsibility
of the operator to sort jobs with similar needs
Ex :- payroll system, Bank statement etc.

multi processing operating system

It is a type of operating system in which more than one cpu is used for the executive of resource

Multi tasking operating system

It is simply a multiprogramming operating system with having facility of a round Robin schduling Algorithm It can run multiple programs simultaneowsly

Time sharing operating system

Each time is given sometime to execute so that all the task smoothly there as are called multi tasking operating system

TSO (time sharing option)

It was 1st introduced in 1972 window terminal services