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Date: 12.3.24

## SYSTEM CALL TRACING

## Aim:

To write a C program and trace system calls used and print the same in ascending order using shell script.

## Algorithm:

- 1. Create a C program with an output statement helloworld.
- 2. Compile and trace system calls while executing the executable file.
- 3. The output of the system calls trace is put in hellotrace file.
- 4. Shellscript to read the contents of hellotrace file and print only system call name as output.

## **Program Code:**

Hinchede (Statio.LL)

Void main () {

printf (" Hello World (n");
}

cat hellotrace leut -fl -d"L"

```
Output:
gcc helloworld.c -0 hashes hello
strace -o hellotrace . / hello
 Hello world
 vi systemcall.sh
 sh systemcall.sh
Systemicallish: line 1: //: Is a directory
 execve
 brk
 mmap 2
 access
 open
 fstat 64
 numap 2
 close
 open
 read
 fstat 64
 map2
 mmap2
 map 2
 dose
 set_thread_area
  mprotect
  reprotect
  mprotect
   nunnap
  fstate 4
   book
   book
                                35
   PRK
    write
   exit group
```

RESULT: The program was been executed and output verified successfully.

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