Ex no: 5

Date: 19.03.2024

SYSTEM CALL TRACING

Aim:

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

output.

Program Code:

ex5.c

```
#include <stdio.h>


void main() {
printf("Hello World!\n");
}
```

Ex5.sh

```
cat ex5trace | cut -f1 -d "("
```

Output:

```
  ┌──(kali㉿kali)-[~/os/ex5]
  └─$ strace -o ex5trace ./ex5
Hello World!

  ┌──(kali㉿kali)-[~/os/ex5]
  └─$ sh ex5.sh
execve
brk
mmap
access
openat
newfstatat
mmap
close
openat
read
pread64
newfstatat
pread64
mmap
mmap
mmap
mmap
mmap
close
mmap
arch_prctl
set_tid_address
set_robust_list
rseq
mprotect
mprotect
mprotect
prlimit64
munmap
newfstatat
getrandom
brk
brk
write
exit_group
+++ exited with 13 +++
```

Result:
The above program executed successfully and output got verified.