Ex no: 5

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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.