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. **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:

// hello.c

```
#include<stdio.h>
void main(){
    printf(“Hello”);
}
```

//systemcall.sh

```
cat hellotrace | cut –f1 –d “(“
```

Output:

Result:

Hence the trace function call from the systemcall.sh script has been successfully executed to identify the calls made by the system during the execution of the hello.c program