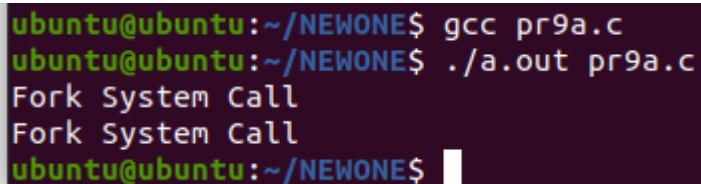


PRACTICAL-9

**A. Write a C program to implement a system call using the fork().**

```
#include <stdio.h>
#include <sys/types.h>
#include <unistd.h>
int main()
{
    fork();
    fork();
    printf("Fork System Call \n");
    return 0;
}
```



```
ubuntu@ubuntu:~/NEWONE$ gcc pr9a.c
ubuntu@ubuntu:~/NEWONE$ ./a.out pr9a.c
Fork System Call
Fork System Call
ubuntu@ubuntu:~/NEWONE$
```

**B . Implementation of Grep Command in "C".**

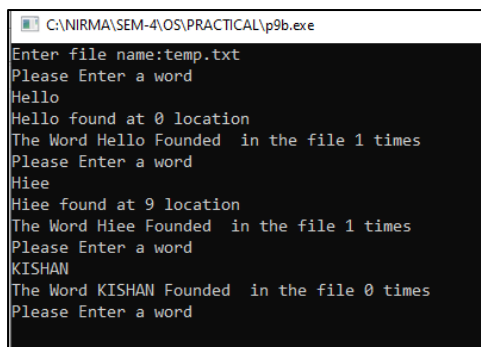
```
#include <string.h>
#include <stdlib.h>
#include <stdio.h>
int main()
{
    int c = 0, i = 0;
    char string[50];
    char search[100] = {0};
    char fname[20];

    printf("Enter file name:");
    scanf("%s", fname);

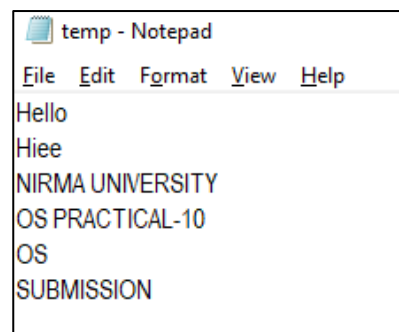
    while(search[0] != '0')
    {
        FILE *f = fopen(fname, "r");
        if (f == NULL)
```

```
{  
    printf("Error file missing\n");  
    break;  
}  
  
printf("Please Enter a word\n");  
scanf("%s", search);  
while ( fscanf(f,"%s", string) == 1)  
{  
    if(strstr(string, search)!=0)  
    {  
        printf("%s found at %d location\n",search,i);  
        c++;  
    }  
    i++;  
}  
printf("The Word %s Founded in the file %d times\n",search,c );  
c = 0;  
fclose(f);  
}  
return 0;  
}
```

O/p:



```
C:\NIRMA\SEM-4\OS\PRACTICAL\p9b.exe  
Enter file name:temp.txt  
Please Enter a word  
Hello  
Hello found at 0 location  
The Word Hello Founded in the file 1 times  
Please Enter a word  
Hiee  
Hiee found at 9 location  
The Word Hiee Founded in the file 1 times  
Please Enter a word  
KISHAN  
The Word KISHAN Founded in the file 0 times  
Please Enter a word
```



```
temp - Notepad  
File Edit Format View Help  
Hello  
Hiee  
NIRMA UNIVERSITY  
OS PRACTICAL-10  
OS  
SUBMISSION
```