IOS 18CE091

## Practical 5

**Aim**: [C] Write a C program using execvp() system call which will count the characters from file 'wc', using program 'p.c'.

```
Program Code:
```

}

```
System_call.c
#include<stdio.h>
#include<unistd.h>
void main(int argc, char* argv[]){
         execvp("./word_count",argv);
}
Word_count.c
#include<stdio.h>
#include<stdlib.h>
#include<unistd.h>
#include<sys/types.h>
#include<sys/stat.h>
#include<fcntl.h>
#include<libgen.h>
#include<dirent.h>
void main(int argc, char* argv[]){
         if(argc>1)
                  int file_name = open(argv[1], O_RDONLY);
                  char buf;
                  int n, counter=0;
                  while(( n=read(file_name, &buf, 1)) != 0)
                           counter++;
                           printf("%d, \n", counter);
                  printf("Total Characters in file : %d", counter);
         }
```

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```
system_call.c
    Open ▼ 🗐
                                                                                                          ~/Desktop/ios practicals/prac 6
  1 #include<stdio.h>
  2 #include<unistd.h>
  5
6
                                                                                                             word_count.c
  Open
 1 #include<stdio.h>
 2 #include<stdlib.h>
 3 #include<unistd.h>
 4 #include<sys/types.h>
 5 #include<sys/stat.h>
6 #include<fcntl.h>
 7 #include<libgen.h>
 8 #include<dirent.h>
10 void main(int argc, char* argv[]){
11
12
13
14
15
           if(argc>1)
                    int file_name = open(argv[1], 0_RDONLY);
                    char buf;
16
17
18
                    int n, counter=0;
                    while(( n=read(file_name, &buf, 1)) != \theta)
19
20
21
22
23
24
                    {
                            counter++;
printf("%d, \n", counter);
                    printf("Total Characters in file : %d", counter);
           }
25 }
                                                                                    file.txt
~/Desktop/ios practicals/prac 6
Open ▼ 🗐
1 Hello Nishit Here, doing practical while watching match.
```

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## Output:

```
nishit@nishit-Inspiron:~/Desktop/ios practicals/prac 6$ gedit system_call.c
nishit@nishit-Inspiron:~/Desktop/ios practicals/prac 6$ gedit word_count.c
nishit@nishit-Inspiron:~/Desktop/ios practicals/prac 6$ gcc -o word_count word_count.c
nishit@nishit-Inspiron:~/Desktop/ios practicals/prac 6$ gcc -o system_call system_call.c
nishit@nishit-Inspiron:~/Desktop/ios practicals/prac 6$ gedit file.txt
nishit@nishit-Inspiron:~/Desktop/ios practicals/prac 6$ ./system_call file.txt
1,
2,
3,
4,
6,
7,
8,
9,
10,
11,
12,
13,
14,
15,
16,
18,
19,
20,
21,
22,
23,
24,
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40,
41,
42,
43,
44,
45,
46,
47,
48,
49,
50,
51,
52,
53,
54,
55,
56,
57,
Total Characters in file : 57nishit@nishit-Inspiron:~/Desktop/ios practicals/prac 6$
```