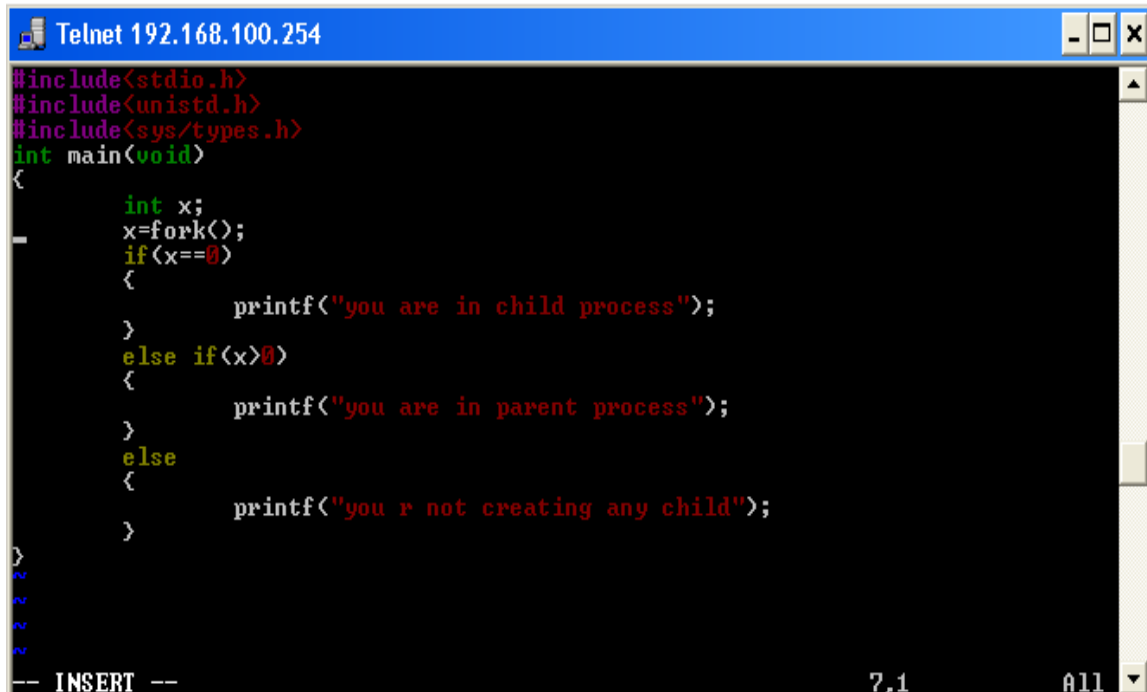


Practical :- 10

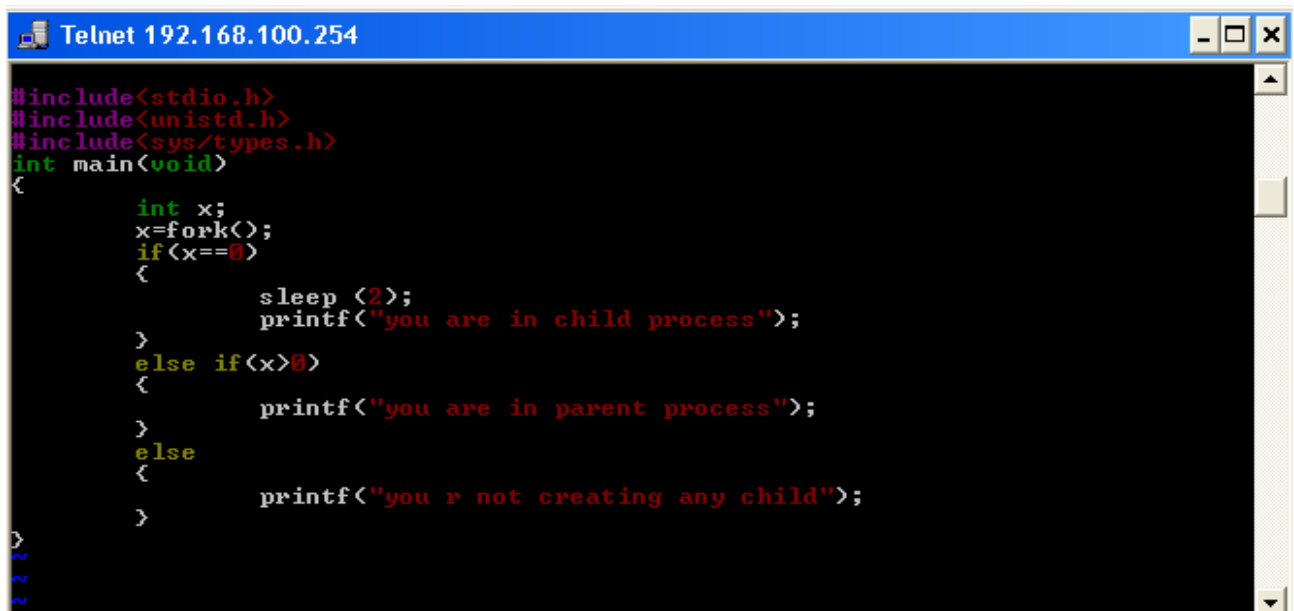
AIM: WAP to study various commands related to processes.

A simple program using fork command



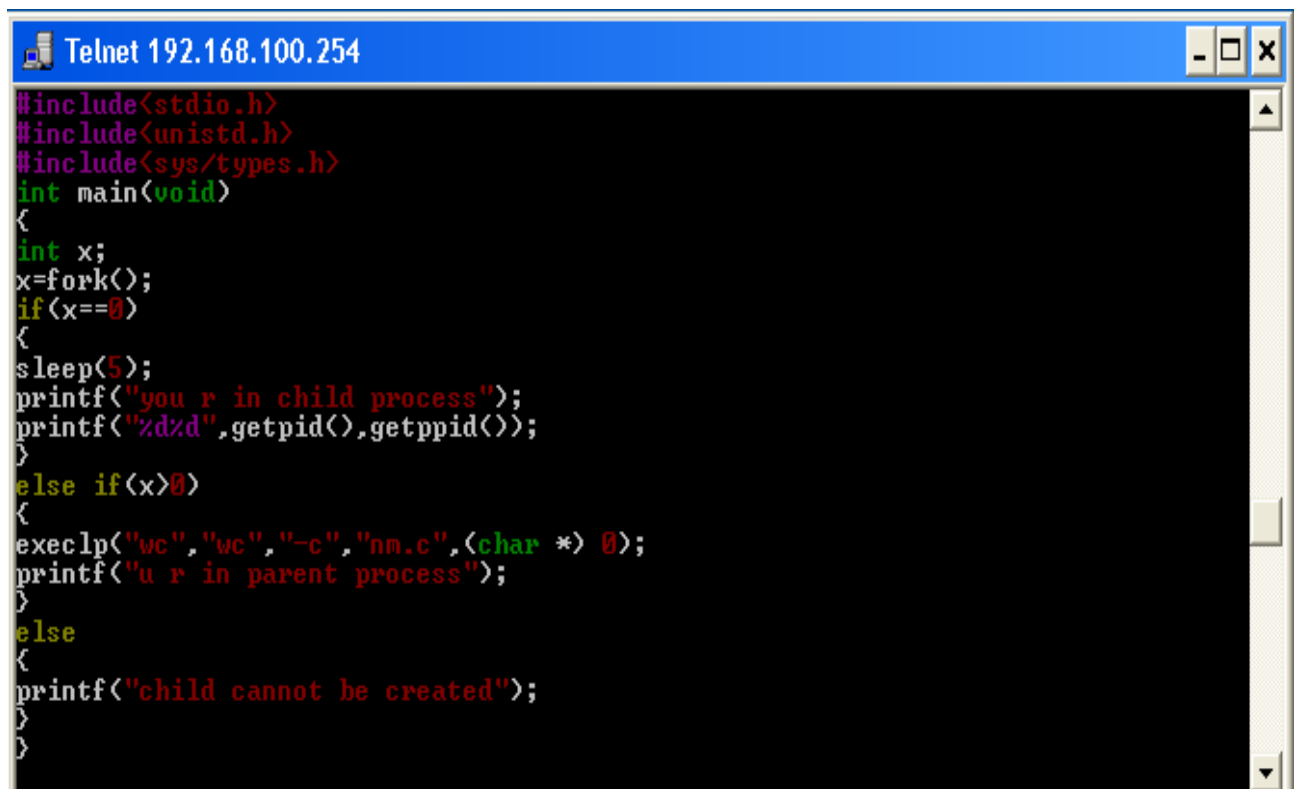
```
Telnet 192.168.100.254
#include<stdio.h>
#include<unistd.h>
#include<sys/types.h>
int main(void)
{
    int x;
    x=fork();
    if(x==0)
    {
        printf("you are in child process");
    }
    else if(x>0)
    {
        printf("you are in parent process");
    }
    else
    {
        printf("you r not creating any child");
    }
}
```

A simple program using fork and sleep command



```
Telnet 192.168.100.254
#include<stdio.h>
#include<unistd.h>
#include<sys/types.h>
int main(void)
{
    int x;
    x=fork();
    if(x==0)
    {
        sleep (2);
        printf("you are in child process");
    }
    else if(x>0)
    {
        printf("you are in parent process");
    }
    else
    {
        printf("you r not creating any child");
    }
}
```

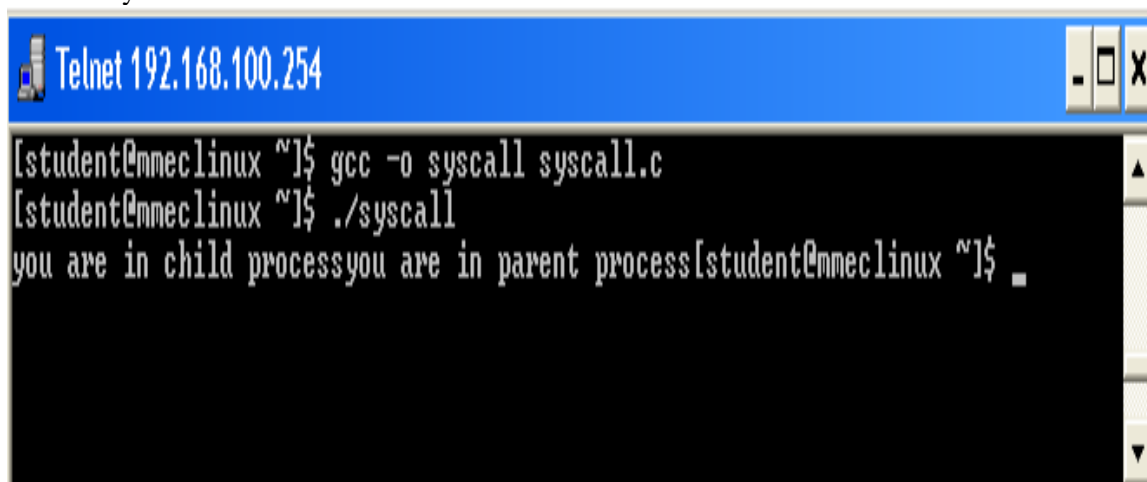
A simple program printing the id of process using various commands



```
Telnet 192.168.100.254
#include<stdio.h>
#include<unistd.h>
#include<sys/types.h>
int main(void)
{
    int x;
    x=fork();
    if(x==0)
    {
        sleep(5);
        printf("you r in child process");
        printf("%d%d",getpid(),getppid());
    }
    else if(x>0)
    {
        execlp("wc","wc","-c","nm.c",<char *) 0);
        printf("u r in parent process");
    }
    else
    {
        printf("child cannot be created");
    }
}
```

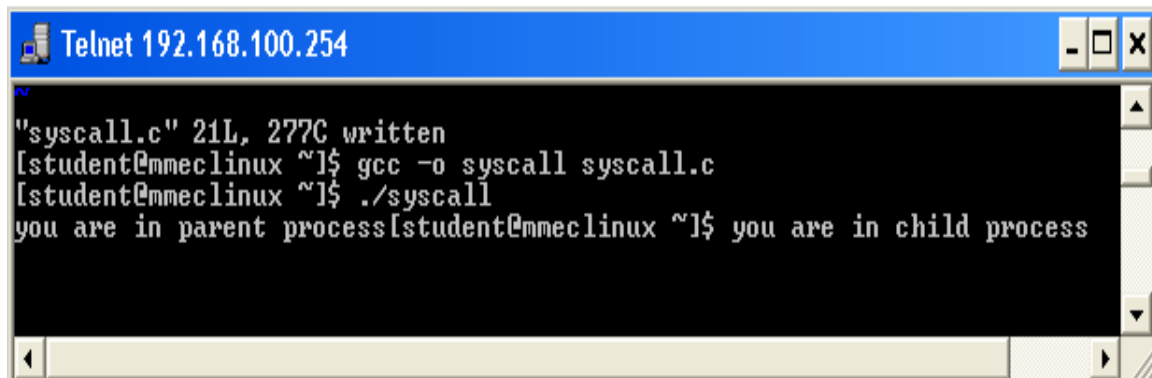
SCREENSHOTS:

When only fork command was used



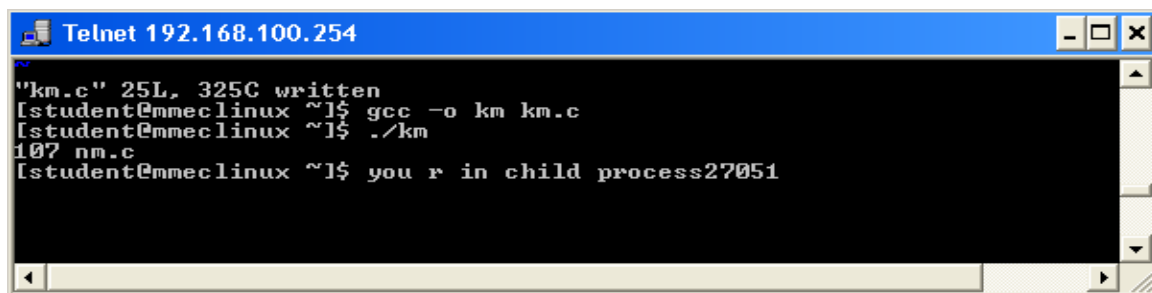
```
Telnet 192.168.100.254
[student@mmeclinux ~]$ gcc -o syscall syscall.c
[student@mmeclinux ~]$ ./syscall
you are in child processyou are in parent process[student@mmeclinux ~]$ _
```

When fork and sleep were used



```
Telnet 192.168.100.254
"syscall.c" 21L, 277C written
[student@mmeclinux ~]$ gcc -o syscall syscall.c
[student@mmeclinux ~]$ ./syscall
you are in parent process[student@mmeclinux ~]$ you are in child process
```

Displaying the id's process



```
Telnet 192.168.100.254
"km.c" 25L, 325C written
[student@mmeclinux ~]$ gcc -o km km.c
[student@mmeclinux ~]$ ./km
107 nm.c
[student@mmeclinux ~]$ you r in child process27051
```