

To write c program to implement the Process system calls.

Algorithm:

Procedure for doing the experiment:

Step

no. Details of the step

- 1 Start the program.
- 2 Declare the pid and get the pid by using the getpid() method.
- 3 Create a child process by calling the fork() system call.
- 4 Check if(pid==0) then print the child process id and if(pid==1) then print the parent process value. Otherwise print fork failed.
- 5 Check if pid==0 then execute the 'ls' command and display the list of files and dir.

```
#include<stdio.h>
#include<sys/types.h>
void main(){
    pid_t pid;
    pid =getpid();
    printf("before fork %d",pid);
    pid=fork();
    if(pid==0)
        printf("\nthisline from child,\nthe child process id %d\n",getpid());
    else if(pid==1)
        printf("this line is from parent,value=%d\n");
    else if(pid<1){
        printf("\n fork failed");
        exit(1);
    }
    if(pid==0){
        execl("/bin/ls","ls","-l",(char *)0);
    }
    if(pid>0)

    wait((int *)0)
}
```