

Program to show fork, exit, getpid :-

```
#include <stdio.h>
#include <sys/types.h>
#include <unistd.h>
#include <sys/wait.h>
#include <stdlib.h>

int main()
{
    pid_t pid,pid1;
    int status;
    int sum=0,i;
    /* fork a child process */
    pid = fork();
    if (pid<0) /*error occurred*/
    {
        fprintf(stderr,"fork failed");
        exit(1);
    }
    else if( pid==0) /*child process*/
    {
        pid1=getpid(); /*gets the process id of the child*/
        printf("child: pid = %d\n",pid);
        printf("child: process identifier = %d\n",pid1);
        for(i=1;i<=100;i++)
            sum=sum+1;
        printf("sum = %d\n",sum);
    }
    else
    {
        /* parent process */
        pid1 = getpid(); /* gets the process id of parent process */
        printf("parent : pid = %d\n",pid);
        printf("parent : parent process identifier = %d\n",pid1);
        wait( & status);
        printf("status of exit = %d\n",status);
    }
    printf("process identifier = %d\n",pid1);
    return 0;
}
```

Output :-

```
parent : pid = 8704
parent : parent process identifier = 8703
child: pid = 0
child: process identifier = 8704
sum = 100
process identifier = 8704
status of exit = 0
process identifier = 8703
```