

```
(vishesh@kali)-[~]  
$ vi program1.c
```





vishesh@kali: ~

Q...

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

int main(void){
    pid_t process_id;
    pid_t p_process_id;
    process_id = getpid();
    p_process_id = getppid();
    printf("The process id: %d\n", process_id);
    printf("The process id of parent function: %d\n", p_process_id);
    return 0;
}
```



program2.c" 121 218B

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vishesh@kali: ~

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

int main()
{
    int n = 10;
    pid_t pid = vfork();
    if(pid == 0)
        printf("Child process started");
    else
        printf("Now I am coming back to current process\n ");
    printf("Value of n: %d\n",n);
    return 0;
}
```



```
#include<stdio.h>
#include<sys/types.h>
#include<unistd.h>
int main()
{
    int ret;
    ret = fork();
    if(ret==0){
        printf("The underlying process is child process \n");
        printf("Child ID: %d\n",getpid());
        printf("Parent ID: %d\n", getppid());
    }
    else{
        printf("The underlying process is parent process \n");
        printf("Child ID: %d\n",getpid());
        printf("Parent ID: %d\n", getppid());
    }
    return 0;
}
```

```
vishesh@kali: ~  
(vishesh@kali)-[~]  
$ vi program1.c  
(vishesh@kali)-[~]  
$ gcc program1.c  
(vishesh@kali)-[~]  
$ ./a.out  
SRMIST  
SRMIST  
(vishesh@kali)-[~]  
$ vi program2.c  
(vishesh@kali)-[~]  
$ gcc program2.c  
(vishesh@kali)-[~]  
$ ./a.out  
The process id: 51630  
The process id of parent function: 50234  
(vishesh@kali)-[~]  
$ vi program3.c  
(vishesh@kali)-[~]  
$ gcc program3.c  
(vishesh@kali)-[~]  
$ ./a.out  
Child process startedValue of n: 10  
Now I am coming back to current process  
Value of n: 32562  
zsh: segmentation fault ./a.out  
(vishesh@kali)-[~]  
$ vi program4.c  
(vishesh@kali)-[~]  
$ gcc program4.c  
(vishesh@kali)-[~]  
$ ./a.out  
The underlying process is parent process  
Child ID: 51720  
Parent ID: 50234
```