Name: Muhammad Usman

Roll no: 19P-0116

LAB TASK 7

CODE:

```
os lab7.c
 Open
            ⅎ
                                               Save
                                                      ~/os lab/os labWork
1 #include<stdio.h>
2 #include<stdlib.h>
3 #include<unistd.h>
5 int main()
6 {
          int pid = fork();
          printf("PID:%d \n",pid);
          if(pid == 0)
                  for(int i=0; i<5; i++)</pre>
                          printf("Parent of Child:%d \n",getppid());
                          sleep(3);
          else if(pid > 0)
                  printf("Parent PID:%d \n",getpid());
                  sleep(2);
                  exit(0);
          return 0;
```

Output:

```
ⅎ
                 usman@usman-Inspiron-3520: ~/os_lab/os_labWork
                                                                 Q
usman@usman-Inspiron-3520:~/os_lab/os_labWork$ gedit os_lab7.c
usman@usman-Inspiron-3520:~/os lab/os labWork$ gcc os lab7.c -o output.o
usman@usman-Inspiron-3520:~/os_lab/os_labWork$ ./output.o
PID:6128
Parent PID:6127
PID:0
Parent of Child:6127
usman@usman-Inspiron-3520:~/os_lab/os_labWork$ Parent of Child:1580
Parent of Child:1580
Parent of Child:1580
Parent of Child:1580
usman@usman-Inspiron-3520:~/os_lab/os_labWork$
```

Explanation:

If the parent process dies before the child, then *Init* is assigned to be the parent of that child and this process is the parent of the processes.