CSE2005 - Operating Systems

LAB ASSIGNMENT-2 Slot: L35 + L36

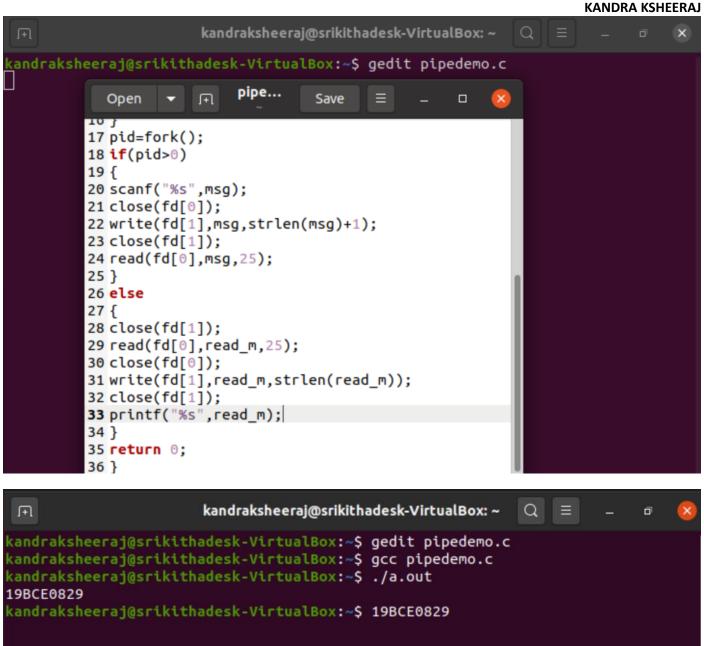
Faculty: GERALDINE BESSIE AMALI D MAM

Date: 31-08-2020

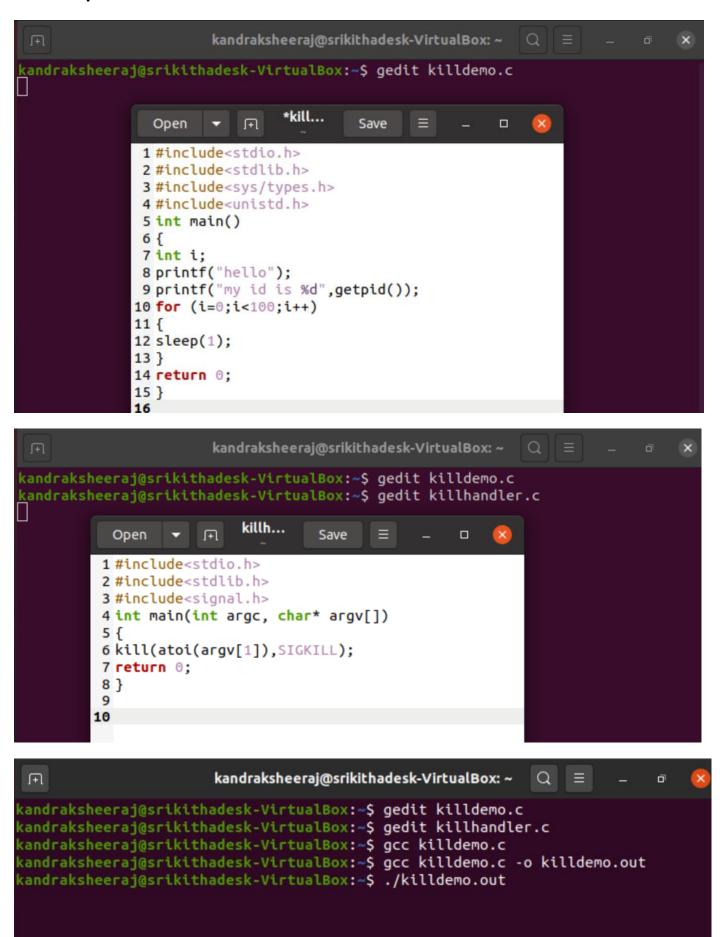
19BCE0829 KSHEERAJ KANDRA

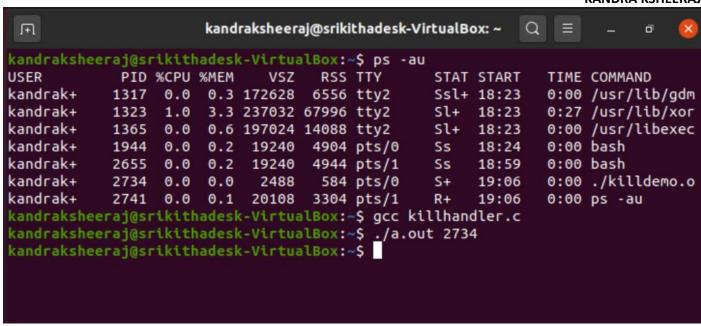
1. Working of Pipes

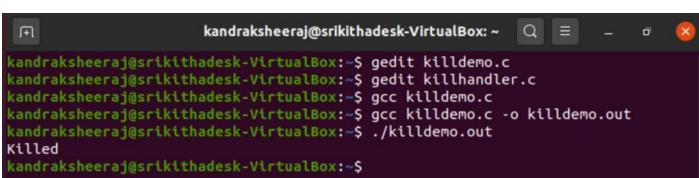
```
kandraksheeraj@srikithadesk-VirtualBox: ~ 🔍
kandraksheeraj@srikithadesk-VirtualBox:~$ gedit pipedemo.c
                             pipe...
                                      Save
                                                        Open
           1 #include<stdio.h>
           2 #include<sys/types.h>
           3 #include<stdlib.h>
           4 #include < unistd.h>
           5 #include<string.h>
           6 int main()
           8 char msg[25];
          9 char read_m[25];
          10 int fd[2];
          11 pid_t pid;
          12 if (pipe(fd)==-1)
          13 {
          14 fprintf(stderr, "pipe failed");
          15 return 1;
          16 }
          17 pid=fork();
          18 if(pid>0)
          19 {
          20 scanf("%s", msg);
```



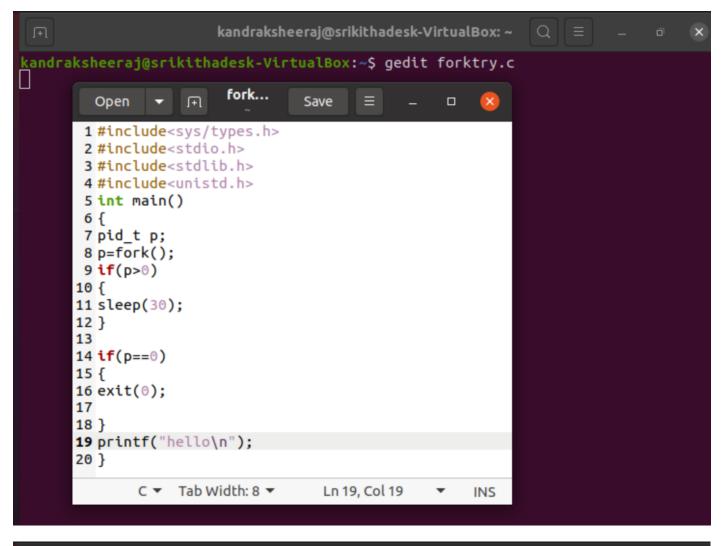
2. Kill a process

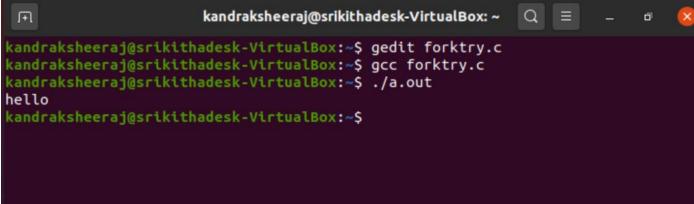






3. Zombie process





kandrakshee	eraj@sri	.kithades	-Virtua	alBox:	\$ ps	-1			
F S UID	PID	PPID	C PRI	NI ADI	DR SZ	WCHAN	TTY	TI	ME CMD
0 S 1001	2941	1931	0 80	0 -	4810	do_wai	pts/2	00:00:0	00 bash
0 R 1001	2953	2941	0 80	0 -	5007		pts/2	00:00:0	90 ps
kandrakshee	eraj@sri	.kithades	-Virtua	alBox:	\$ ps	-au			
USER	PID %	CPU %MEM	VSZ	RSS	TTY	STA	AT START	TIME	COMMAND
kandrak+	1317	0.0 0.3	172628	6556	tty2	Ssl	+ 00:34	0:00	/usr/lib/g
kandrak+	1323	1.0 3.5	242292	73148	tty2	Sl+	00:34	0:33	/usr/lib/x
kandrak+	1365	0.0 0.6	197024	14088	tty2	Sl+	00:34	0:00	/usr/libex
kandrak+	1944	0.0 0.2	19240	4912	pts/0	Ss	00:35	0:00	oash
kandrak+	2655	0.0 0.2	19240	4944	pts/1	Sst	01:10	0:00	oash
kandrak+	2929	0.0 0.0	2356	516	pts/0			0:00	./a.out
kandrak+	2930	0.0 0.0	0	0	pts/0	Z+	01:26	0:00	[a.out] <d< td=""></d<>
kandrak+	2941	0.4 0.2	19240	4844	pts/2	Ss	01:26	0:00	oash
kandrak+	2956	0.0 0.1	20108	3264	pts/2	R+	01:26	0:00	os -au
kandrakshee	eraj@sri	kithades	-Virtua	alBox:	-\$				

F			kand	raksheer	aj@sriki	thadesk	-VirtualB	ox: ~	Q =	-	o 🔕
kandrak+	1650	0.0	0.5	256712	11220	?	Ssl	00:34	0:00	/usr/l	ibexec
kandrak+	1651	0.0	0.2	465720	5944	?	Ssl	00:34	0:00	/usr/l	ibexec
kandrak+	1654	0.0	0.2	244132	6028	?	Ssl	00:34	0:00	/usr/l	ibexec
kandrak+	1656	0.0	0.4	473264	9860	?	Ssl	00:34	0:00	/usr/l	ibexec
kandrak+	1658	0.0	0.4	323640	8436	?	Ssl	00:34	0:00	/usr/l	ibexec
kandrak+	1660	0.0	0.4	327860	8984	?	Ssl	00:34	0:00	/usr/l	ibexec
kandrak+	1663	0.0	0.3	467304	7104	?	Ssl	00:34	0:00	/usr/l	ibexec
kandrak+	1669	0.0	1.3	353952	28124	?	Ssl	00:34	0:00	/usr/l	ibexec
kandrak+	1673	0.0	0.2	231792	5692	?	sl	00:34	0:00	/usr/l	ibexec
kandrak+	1674	0.0	0.3	322592	7936	?	Ssl	00:34	0:00	/usr/l	ibexec
kandrak+	1676	0.0	1.4	355124	29572	?	Ssl	00:34	0:01	/usr/l	ibexec
kandrak+	1685	0.0	1.4	716212	30132	?	Ssl	00:34	0:00	/usr/l	ibexec
kandrak+	1686	0.0	2.9	642648	59796	?	sl	00:34	0:01	/usr/l	ibexec
kandrak+	1719	0.0	0.7	350800	14860	?	s١	00:34	0:00	/usr/l	ibexec
kandrak+	1789	0.0	1.4	681796	29724	?	Ssl	00:34	0:00	/usr/l	ibexec
kandrak+	1931	0.5	2.6	976792	54608	?	Ssl	00:35	0:17	/usr/l	ibexec
kandrak+	1944	0.0	0.2	19240	4912	pts/0	Ss	00:35	0:00	bash	
root	1991	0.0	2.0	479344	41592	?	Ssl	00:35	0:01	/usr/l	ibexec
kandrak+	2003	0.0	1.6	429844	34548	?	s١	00:35	0:00	update	-notif
kandrak+	2006	0.0	0.3	170904	6484	?	Ssl	00:35	0:00	/usr/l	ibexec
root	2293	0.0	0.0	0	0	?	I	00:52	0:00	[kwork	er/0:1
kandrak+	2655	0.0	0.2	19240	4944	pts/1	Ss	01:10	0:00	bash	
root	2670	0.0	0.0	0	0	?	I	01:11	0:00	[kwork	er/u2:
root	2762	0.0	0.0	0	0	?	I	01:19	0:00	[kwork	er/u2:
kandrak+	2965	3.0	1.2	443244	25796	?	Ssl	01:28	0:00	/usr/l	ibexec
kandrak+	2973	0.0	0.0	2356	580	pts/0	<u>S+</u>	01:28	0:00	./a.ou	t
kandrak+	2974	0.0	0.0	0	0	pts/0	Z+	01:28	0:00	[a.out] <def< td=""></def<>
kandrak+	2975	0.0	0.1	20108		pts/1	R+	01:28	0:00	ps aux	
kandrakshee	raj@sr	ikith	adesl	k-Virtu	alBox:	\$					