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A

<u> 21</u> 9	iancil:
<u>a.</u>	Every process will be terminated, because in kill () function call, pid is negative means, it will sent to every child of that parents's proces group. So, they all have paid = 10.50, all will be kill
h.	if $(p_2 = foxk(x)) = = 0$ // 2^{nd} child
=	5
	prints (" (hild 2"); setpgid (getpid (), 12);
	setpaid (actoid () te);
	5
	If same kill will execute as (a.) then
	owent a child I will be kill & not child 2
0	because child 2's paid is changed.
С.	# include Lsignal. h)
	# include < stdio.hl
	# include < sys/cocit. b>
	# include Lerrno.hl
	# include < sys / types . h)
, , , , , , , , , , , , , , , , , , ,	# include < unistd. h)
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Ato

	आत्मदापामव
Void alarmHundler ();	<u>-</u>
Vold (* oldhundler) ():	
Void disuble (ritical();	
void disuble (zitica)()	
\$	
print (" Normal section");	
kill (getpgrp()*(-1), SIGUSR2);	
Cicrocil Caraniam (17) 2100245	
signal (signal RM, alasm Humiles);	
4 GIGTYN(5),	
	1
Vaid allermand Line Co. S.	
Void alarm Hunder () ?	
printf ("Cottical Section");	
kill (getpgxp()*(-I) SIGUSRI);	т
signal (SIGALAMI, disable (zitial);	-
2 (3);	
5	
No. 1 diament of the state of t	
void sigusezheindlez (int signum)	
3	
switch (signum)	
3 00V2 CTC 110 0 T	1
CUSC 51GUSR I :	1
othundler = signal (SIGINT, SIGIGN	1)
breuk;	
cose SICIUSR2:	
signal (SIGINT, odhundler);	
break;	
\	

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uto

2001		
5	main (void)	
	int status;	
	int pid = fork ();	
	if (pid! = 0) }	
	signal (signs Riguserhandler);	
	axiid (Q steptus):	
	3	
3	plse	
•	ş	
	signal (sicuspi, sigusestandles);	
	Signal (szeuska, siguscabandlea);	
	pint ("child");	
	signal (swarm, chamblandler);	
	ellerm (5);	
	while (I);	
	3	
3	>	
A		

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Q2 Concurrent Programming:
a. Thread 0
Thread 1
Ou Thread I Thread 0
Threid 0
-> Because, it is concurrent so sequence may
GITTE MC.
b. Thread 2
— Thread 2
O4 Thread I
Threeld 2
Because it is concurrent so output may
differ
C. Threeld 2
C. Thread 2 Thread 2
d. Thread 0
Thre cid I
111111111111111111111111111111111111111

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е.	
):	
Line I: sem-init (omuter, 0, 1);	
line 2: sem - int (gitems, 0, 1);	
line 3: sem-int (solot, 0, 1);	
line 4: sem - wait (pitems);	
Line 5: sem_wait (mutex);	
line 6: sem-post &items);	
Line 7: sem-post (smutex);	
3. 11 = 1031 (g) (1030)	
line 8: sem - weit (gitems);	
Line 9 : som - wait (\$51015);	
CINE 3 , SPW - BUIL (\$51015),	
line 10 : sem - past (gitems);	
Line 17: sem-past (stslots);	

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Q3 Network:	
	=
	C
a. Client	Server
	Socket
Socket	bind
	listen
Commect	accept
	in a single cooket
b. Socket: It wi	Il use to creche gocket
file de	escriptor It will Create on
both_c	lient & server side
- 9+ 15	end point of Connection
- And 50	ckelfd is listered for Server
Side &	Clientfd for Client side
0,/1,, 0, %	hind the cocket address of
I Isind It will	bind the socket address of to file descriptor that
5 6 3 X 6 3	10 the thescriptor mai
2)) , [] , ()	bind the listenfd (server
Bind : 1+ Will	the correct cooled olders
5116 / 70	the server socket uddress
l'al al liston (d	is where the server is
	for the client request & so us the request is accepte
<u>05 5000</u>	call coill create of nem to
Occept ()	can will record of the ta

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grept: As soon as request is accepted from lient it will create a new file descriptor called connect. Blocking all
connect: It will send/connection request to
connect: It will communicate between client & server with all details.
<u>C.</u>
main() {
int ab=0; int ar=0;
int port = 500;
while (abzy) {
getuddrinfo (Nylll, post, & hint,
ly Listf);
listenfd = socket (listP > cii -fumily
listp > cli = socktype,
(15tp -> cli = protocole);
bind (listenfol, 500);
while (I) \$
connfd = cucept (listenfd,
(Struck socket-udd), & clientuddr
& clientlen);
curtt;

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pthreud creute (& tid, nuz, Rundle-(lient, commitd);
if ((4) == 500) 5
CH->
C(9) = C;
part (1b++;
5 : slipand
3
<u> </u>
5
•

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Q4 Device Driver:
a. Major Number represents which driver
will used to manage a particular device
9+ cillous multiple devices to have the
same major number if they are managed
by the same driver.
Ex: there cire 4 tidevices represented as
minor numbers 0, 10, 11, 12 by they
ure manage by same driver number 4.
9 15 - 1+2 / dev
(rww= root +1 4, 0 x +10
(oww1 root +14 , 10 +1 10
Crw w 1 root +1 4 , 12 +1 12
(7wwI root +1 4 , 21 +1 II
the allest in used to durate intilly allested
b. kmalloc is used to dynamically allowed ememory to buffers in kenal code
Yes, we use this same fundion for user
application by using GEP_USE QFP_USER
Shumana in asua asia at sastis.
part of the second of the seco