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Class BS(IT)

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Assignment Operating system

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**Question:**

Write a Program to create 8 processes (2 parent and 6 children) where they terminates in a sequence as follows”:

(a) First process terminates at end

(b) First child terminates before parent and after second child.

(c) Second child terminates after last and before first child.

(d) Seven child terminates first.

Answer**:**

#include <stdio.h>

#include <stdlib.h>

#include <unistd.h>

// Driver code

int main()

{

int pid, pid1, pid2;

// variable pid will store the

// value returned from fork() system call

pid = fork();

// If fork() returns zero then it

// means it is child process.

if (pid == 0) {

// First child needs to be printed

// later hence this process is made

// to sleep for 3 seconds.

sleep(3);

// This is first child process

// getpid() gives the process

// id and getppid() gives th

// parent id of that process.

printf("child[1] --> pid = %d and ppid = %d\n",

getpid(), getppid());

}

else {

pid1 = fork();

if (pid1 == 0) {

sleep(2);

printf("child[2] --> pid = %d and ppid = %d\n",

getpid(), getppid());

}

else {

pid2 = fork();

if (pid2 == 0) {

// This is third child which is

// needed to be printed first.

printf("child[3] --> pid = %d and ppid = %d\n",

getpid(), getppid());

}

// If value returned from fork()

// in not zero and >0 that means

// this is parent process.

else {

// This is asked to be printed at last

// hence made to sleep for 3 seconds.

sleep(3);

printf("parent --> pid = %d\n", getpid());

}

}

}

return 0;

}

**(The end)**