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Q#1 (a)

parent process runs first then child process
output:-

Before fork()

Parent process code After fork() child process
code

sleep for 10 second

Parent of this child: 1234

After fork().

Q#1 (b)

there is an error in the code in the
printf. printf doesnot work this way.
we have to tell the type of the
thing we want to print.

In this case, we are printing an integer
printf("%d", a);

after doing this, the output will be
30.

Question 2:-

(a) There could be multiple solutions to solve this problem.

one and direct solution could be a hardcode solution.

An optimal solution to solve this problem could be to make a function of each series, get the first letters of the series from the user and call the respective function. The output also printed inside the function.

But ofcourse it is a lengthy procedure and time consuming, not suitable at all for the lab final to be performed in 1 hour.

The other solution and the solution which I used is to make arrays respective to the series starting from the first letters.

Deal with each array as it has been dealt with each letters in the series and output/print all the array together.

(b) There is no need for the interprocess communication in this problem, this is a straight forward problem.

(c) code and output provided.

Question #3

(a) Various IPC techniques can be used for this problem

- unnamed pipes
- named pipes
- shared memory
- sockets
- memory mapping

I am using unnamed pipes as i did in my quiz assignment 2.