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Operating System

Home Assignment 1

1. Output:

Parent sees $i = 0$
Child sees $i = 0$
Parent sees $i = 1$
Child sees $i = 1$
Parent sees $i = 2$
Child sees $i = 2$

2. Output:

Parent says a: 1
id: 1 a: 2 b: 1
id: 2 a: 3 b: 1
Thread 1 and 2 complete

3. In M:N threading is known as hybrid threading and maps M user-level threads are mapped onto N kernel-level threads. In this each process has its own address space, file description at kernel level. The processes can create, destroy, schedule and synchronize user level threads to support multiple threads at user level onto the single kernel thread and thread all managed within the process. And one other thing is in ULT context switching is less expensive where KLT is more expensive.

Mapping is possible for these relative values of m and n :

$m \gg n$

$m > n$

$m \text{ (approx)} = n$

Best choice: $m \gg n$