1. Write down the similarities and differences between processes and threads.
2. Write down an application that you would choose using multiple concurrent processes to implement the application.
3. Write down an application that you would choose using multiple threads to implement the application.
4. Is there a limit on the number of processes that can be created in a system? Why there is a limit, or why there is no limit?
5. Given the following program, write down the output that you expect to see on the screen if you execute the program. Assume fork() never fails during the execution of the program.

```c
#include <stdio.h>
#include <sys/types.h>
#include <unistd.h>

int main()
{
    int i=5, j=20;
    if (fork() == 0) {
        int x = 50;
        i += 10;
        j += 5;
        printf("i=%d, j=%d\n", i, j);
        if (fork() == 0) {
            i = 10;
            printf("i=%d, j=%d, x=%d\n", i, j, x);
        }
        else {
            printf("i=%d, j=%d, x=%d\n", i, j, x);
            x += 5;
        }
    }
    printf("i=%d, j=%d\n", i, j);
    exit(0);
}
```