

MULTITHREADING

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#include <stdio.h>

#include <stdlib.h>

#include <pthread.h>

#include <unistd.h> // for sleep()

// Thread function to print numbers
void* printNumbers(void* arg) {
    for (int i = 1; i <= 10; i++) {
        printf("Thread 1 printing number: %d\n", i);
        sleep(1); // slow down so we can input
    }
    pthread_exit(NULL);
}

// Thread function to take user input
void* takeInput(void* arg) {
    char input[50];
    for (int i = 0; i < 3; i++) {
        printf("Thread 2: Enter a word: ");
        scanf("%s", input);
        printf("Thread 2 received: %s\n", input);
    }
    pthread_exit(NULL);
}

int main() {
    pthread_t t1, t2;

    // Create threads
    pthread_create(&t1, NULL, printNumbers, NULL);
    pthread_create(&t2, NULL, takeInput, NULL);

    // Wait for threads to finish
    pthread_join(t1, NULL);
```

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    pthread_join(t2, NULL);  
    printf("Both threads finished execution.\n");  
    return 0;  
}
```