

threadsaa

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#include <stdio.h>
#include <stdlib.h>
#include <pthread.h>

// Function to be executed by each thread
void* thread_function(void* arg) {
    int thread_num = *((int*)arg); // Retrieve the
thread number
    printf("Hello from thread %d!\n", thread_num);
    return NULL;
}

int main() {
    pthread_t threads[5]; // Array to hold thread IDs
    int thread_args[5]; // Array to hold thread
arguments (thread numbers)

    // Creating 5 threads
    for (int i = 0; i < 5; i++) {
        thread_args[i] = i + 1; // Assigning thread
number starting from 1
        if (pthread_create(&threads[i], NULL,
thread_function, &thread_args[i]) != 0) {
            perror("Failed to create thread");
            exit(1);
        }
    }

    // Wait for all threads to finish execution
    for (int i = 0; i < 5; i++) {
        if (pthread_join(threads[i], NULL) != 0) {
            perror("Failed to join thread");
            exit(1);
        }
    }

    printf("All threads have finished executing.\n");
    return 0;
}

```



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