//teo threads

#include <stdio.h>

#include <stdlib.h>

#include <pthread.h>

#include <semaphore.h>

int sharedData = 5;

sem\_t semaphore;

void\* thread1\_function(void\* arg);

void\* thread2\_function(void\* arg);

int main() {

sem\_init(&semaphore, 0, 1);

pthread\_t thread1, thread2;

pthread\_create(&thread1, NULL, thread1\_function, NULL);

pthread\_create(&thread2, NULL, thread2\_function, NULL);

pthread\_join(thread1, NULL);

pthread\_join(thread2, NULL);

sem\_destroy(&semaphore);

return 0;

}

void\* thread1\_function(void\* arg)

{

sem\_wait(&semaphore);

int doubledValue = sharedData \* 2;

printf("Thread 1: Doubled value: %d\n", doubledValue);

sem\_post(&semaphore);

pthread\_exit(NULL);

}

void\* thread2\_function(void\* arg)

{

sem\_wait(&semaphore);

int fiveTimesValue = sharedData \* 5;

printf("Thread 2: Five times value: %d\n", fiveTimesValue);

sem\_post(&semaphore);

pthread\_exit(NULL);

}

Output:

