Name: Muhammad Saim Nomani (DT-22030)

Course: Operating System (CT-353)

LAB 03

Lab Question

Code:

```c
#include <stdio.h>

#include <stdlib.h>

#include <pthread.h>


void *func1(void *ptr);

void *func2(void *ptr);

main()

{

   pthread_t thread1, thread2;

        char *message1 = "Thread 1";

        char *message2 = "Thread 2";

   int  iret1, iret2;


        iret1 = pthread_create( &thread1, NULL, func1, (void*) message1);

        iret2 = pthread_create( &thread2, NULL, func2, (void*) message1);


   pthread_join( thread1, NULL);

   pthread_join( thread2, NULL);

   printf("\n\nThread 1 returns: %d\n",iret1);

        printf("\nThread 2 returns: %d\n",iret2);

        exit(0);

}
```

```c
void *func1(void *ptr) {

        for (int i = 0; i < 6; i++) {

                printf("\nfunc1 %d", i);

                sleep(1);

        }

}


void *func2(void *ptr) {

        for (int i = 0; i < 6; i++) {

                printf("\nfunc2 %d", i);

                sleep(3);

        }

}
```

Output:

```
func1 0
func2 0
func1 1
func1 2
func2 1
func1 3
func1 4
func1 5
func2 2
func2 3
func2 4
func2 5

Thread 1 returns: 0

Thread 2 returns: 0

-------------------------------
Process exited after 18.13 seconds with return value 0
Press any key to continue . . .
```