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Course: Operating System (CT-353)

LAB 03

Lab Question

Code:

```
#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);
```

```
}
```

```
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 . . .
```