

Noman Ahmed

DT_22032

Operating System (CT-353)

Lab no 03

Noman Ahmed

DT_22032

Code:

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  #include <pthread.h>
4  #include <unistd.h>
5
6  void *print_message_function (void *ptr);
7
8  int main() {
9      pthread_t thread1, thread2;
10     char *message1 = "Thread1";
11     char *message2 = "Thread2";
12
13     int iret1, iret2;
14
15     iret1 = pthread_create(&thread1, NULL, print_message_function, (void*) message1);
16     iret2 = pthread_create(&thread2, NULL, print_message_function, (void*) message1);
17
18     pthread_join( thread1, NULL);
19     pthread_join(thread2, NULL);
20
21     printf("Thread 1 returns: %d\n", iret1);
22     printf("Thread 2 returns: %d\n", iret2);
23     return 0;
24 }
25
26 void *print_message_function( void *ptr){
27     char *message;
28     message = (char*) ptr;
29     printf("%s\n",message);
30 }
31
32
33
34 //Compile: gcc -pthread -o a mt.c
35 //Run: ./a.out
```

Output:

```
Thread1
Thread1
Thread 1 returns: 0
Thread 2 returns: 0

-----
Process exited after 0.05652 seconds with return value 0
Press any key to continue . . .
```