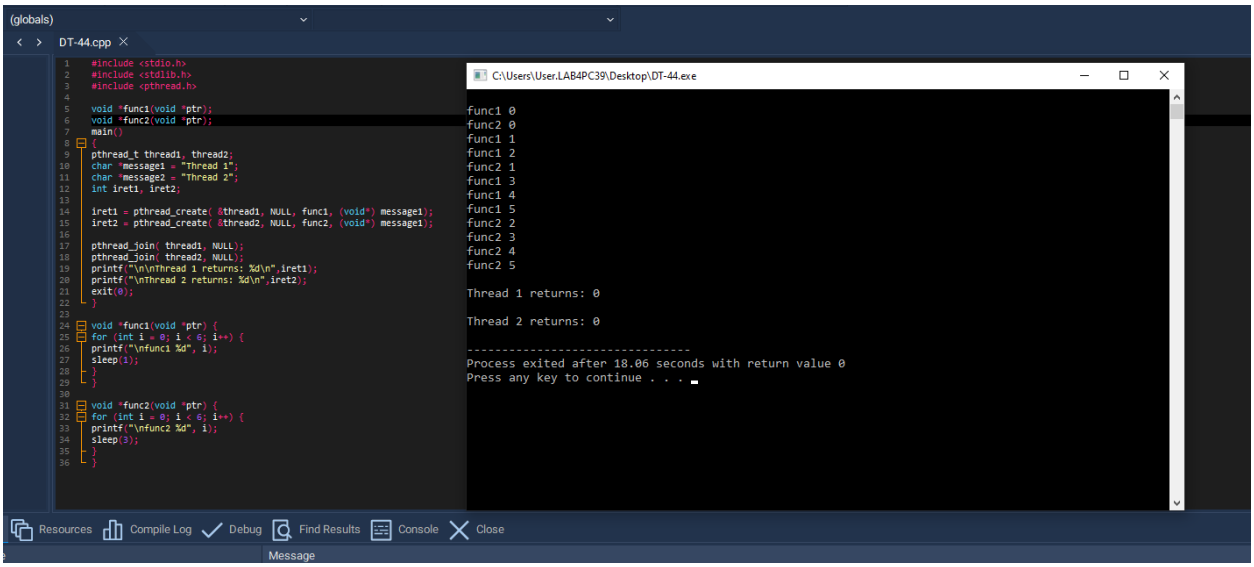
LAB NUMBER 3

1) Implement the above code and paste the screen shot of the output.



2) Describe the following line of code:

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

The given line of code is used to create a new thread using the `pthread_create` function in C. Here's what each part of the statement does:

- `iret1` stores the return value of `pthread_create`, which helps check if the thread was created successfully. If `0` is returned, it means the thread was created successfully; otherwise, an error occurred.
- `&thread1` is a pointer to a `pthread_t` variable, which will store the unique ID of the new thread.
- `NULL` is passed as the second argument, meaning the thread will use default attributes.
- `print_message_function` is the function that the new thread will execute.
- `(void*) message1` is the argument that will be passed to `print_message_function`. The `(void*)` typecast ensures compatibility with the expected function signature.

In summary, this line creates a new thread (`thread1`), which runs `print_message_function`, passing `message1` as an argument. The return value (`iret1`) helps in checking if the thread creation was successful.