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30.Write C programs to demonstrate the following thread related concepts.

Aim: To demonstrate creating and terminating threads using `pthread` library.
Algorithm:

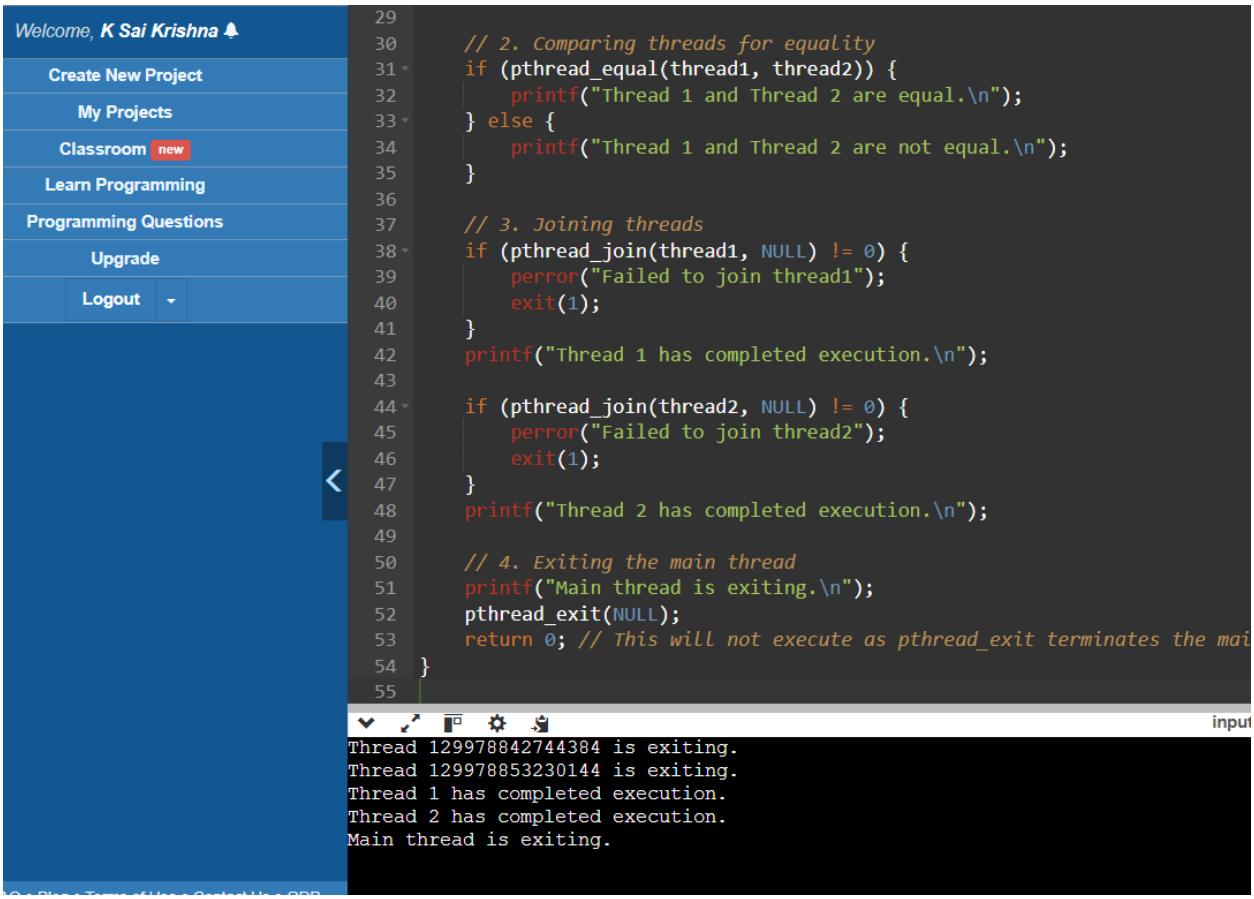
1. Include the necessary libraries.
2. Define a thread function.
3. Create threads using `pthread_create`.
4. Wait for the thread to complete using `pthread_join`.
5. Terminate the thread.

Code:

```
#include <pthread.h>

#include <stdio.h>

#include <stdlib.h>



void* thread_function(void* arg) {

    printf("Thread running...\n");

    return NULL;

}



int main() {

    pthread_t thread;

    pthread_create(&thread, NULL, thread_function, NULL);

    pthread_join(thread, NULL);

    printf("Thread terminated.\n");

    return 0;
```

}

Output:



RESULT

his experiment successfully demonstrates basic thread operations in C using the pthread library, including thread creation, synchronization (joining), comparison, and proper exit handling.