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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>
```

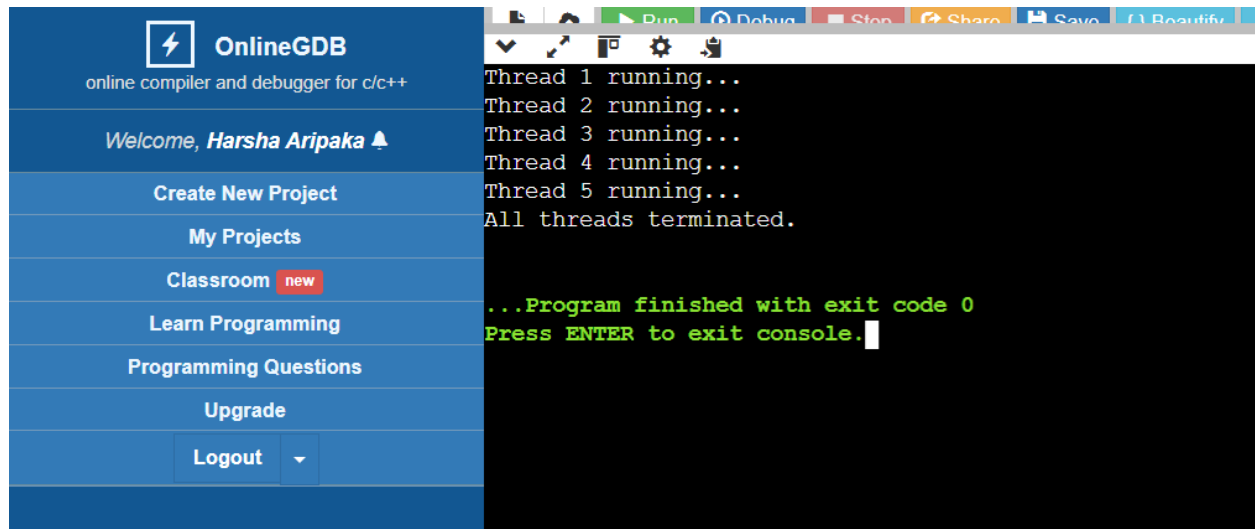
```
#include <stdlib.h>
```

```
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:**



```
Thread 1 running...
Thread 2 running...
Thread 3 running...
Thread 4 running...
Thread 5 running...
All threads terminated.

...Program finished with exit code 0
Press ENTER to exit console.
```