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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:

Welcome, <i>Revi Thimma Reddy</i> 🔔	<pre>1 // Thread creation program 2 #include <stdio.h> 3 #include <stdlib.h> 4</pre>
Create New Project	Thread running...
My Projects	Thread terminated.
Classroom new	
Learn Programming	
Programming Questions	...Program finished with exit code 0
Upgrade	Press ENTER to exit console.
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