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 running...
Thread terminated.

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