8. Illustrate the concept of multithreading using a C program.

7.ipc.cpp

```c
#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
#include <pthread.h>
int g = 0;
void *myThreadFun(void *vargp)
{

    int *myid = (int *)vargp;

    // Let us create a static variable to observe its changes
    static int s = 0;

    // Change static and global variables
    ++s; ++g;

    // Print the argument, static and global variables
    printf("Thread ID: %d, Static: %d, Global: %d\n", *myid, ++s, ++g);
}

int main()
{
    int i;
    pthread_t tid;

    // Let us create three threads
    for (i = 0; i < 3; i++)
        pthread_create(&tid, NULL, myThreadFun, (void *)&tid);

    pthread_exit(NULL);
    return 0;
}
```

```
C:\Users\kalya\OneDrive\Desktop\7.ipc.exe
Thread ID: 3, Static: 2, Global: 2
Thread ID: 3, Static: 4, Global: 4

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Process exited after 0.4408 seconds with return value 3221225477
Press any key to continue . . .
```