1 OPERATING SYSTEMS LABORATORY V - Additional Thread <u>Exercises:</u>

1. Write a program to calculate the factorial of a number. Your program should;

   - create a thread,
   - supply a function for the thread,
   - output the result in the **main** (function/process/thread).

2. Modify the code given in the fifth example such that;

   - having 5 threads,
   - each thread will increment the value of a global variable by one for 500 times.
   - after each iteration the thread sleeps for a short while **(sleep(2))**,
   - execute your program several times,
   - compare the output with the fifth example's output.
   - Now, increase the time for sleeping and the value for the loop such as:
     - **sleep(12)**,
     - **5000000**,
     - apply the procedure above,
     - what happens!!