

Outputs

Github repo: https://github.com/VaheHayrapetyan24/CS331_operating_systems

1 thread creation

```
main finishedvaheh@ubuntu-aua-os:~/CS331_operating_systems/9_threads_basics$ ./build/1_create
thread 3704035, arg: 0
thread 3704036, arg: 1
thread 3704037, arg: 2
main finishedvaheh@ubuntu-aua-os:~/CS331_operating_systems/9_threads_basics$ ./build/1_create
thread 3704039, arg: 0
thread 3704041, arg: 2
thread 3704040, arg: 1
main finishedvaheh@ubuntu-aua-os:~/CS331_operating_systems/9_threads_basics$ ./build/1_create
thread 3704043, arg: 0
thread 3704044, arg: 1
thread 3704045, arg: 2
main finishedvaheh@ubuntu-aua-os:~/CS331_operating_systems/9_threads_basics$ cp 1_create.c 2_array.c
```

2 array processing

```
main finishedvaheh@ubuntu-aua-os:~/CS331_operating_systems/9_threads_basics$ ./build/2_array
thread 3704246, sum: 10
thread 3704247, sum: 35
main finishedvaheh@ubuntu-aua-os:~/CS331_operating_systems/9_threads_basics$ ./build/2_array
thread 3704249, sum: 10
thread 3704250, sum: 35
main finishedvaheh@ubuntu-aua-os:~/CS331_operating_systems/9_threads_basics$ ./build/2_array
thread 3704253, sum: 35
thread 3704252, sum: 10
main finishedvaheh@ubuntu-aua-os:~/CS331_operating_systems/9_threads_basics$ ./build/2_array
thread 3704255, sum: 10
thread 3704256, sum: 35
main finishedvaheh@ubuntu-aua-os:~/CS331_operating_systems/9_threads_basics$ ./build/2_array
thread 3704259, sum: 35
thread 3704258, sum: 10
main finishedvaheh@ubuntu-aua-os:~/CS331_operating_systems/9_threads_basics$ cp 1_create.c 3_nums.c
```

3 printing numbers

```
vahen@ubuntu-aua-os:~/CS331_operating_systems/9_threads_basics$ ./build/3_nums
thread 3704298, i: 0
thread 3704298, i: 1
thread 3704298, i: 2
thread 3704298, i: 3
thread 3704298, i: 4
thread 3704300, i: 0
thread 3704300, i: 1
thread 3704300, i: 2
thread 3704300, i: 3
thread 3704300, i: 4
thread 3704299, i: 0
thread 3704299, i: 1
thread 3704299, i: 2
thread 3704299, i: 3
thread 3704299, i: 4
main finishedvahen@ubuntu-aua-os:~/CS331_operating_systems/9_threads_basics$ ./build/3_nums
thread 3704302, i: 0
thread 3704302, i: 1
thread 3704302, i: 2
thread 3704303, i: 0
thread 3704303, i: 1
thread 3704303, i: 2
thread 3704303, i: 3
thread 3704303, i: 4
thread 3704302, i: 3
thread 3704302, i: 4
thread 3704304, i: 0
thread 3704304, i: 1
thread 3704304, i: 2
thread 3704304, i: 3
thread 3704304, i: 4
main finishedvahen@ubuntu-aua-os:~/CS331_operating_systems/9_threads_basics$ ./build/3_nums
thread 3704306, i: 0
thread 3704308, i: 0
thread 3704308, i: 1
thread 3704308, i: 2
thread 3704308, i: 3
thread 3704308, i: 4
thread 3704306, i: 1
thread 3704306, i: 2
thread 3704306, i: 3
thread 3704306, i: 4
thread 3704307, i: 0
thread 3704307, i: 1
thread 3704307, i: 2
thread 3704307, i: 3
thread 3704307, i: 4
main finishedvahen@ubuntu-aua-os:~/CS331_operating_systems/9_threads_basics$ ./build/3_nums
thread 3704310, i: 0
thread 3704310, i: 1
thread 3704310, i: 2
thread 3704310, i: 3
thread 3704310, i: 4
thread 3704311, i: 0
thread 3704311, i: 1
thread 3704311, i: 2
thread 3704311, i: 3
thread 3704311, i: 4
thread 3704312, i: 0
thread 3704312, i: 1
thread 3704312, i: 2
thread 3704312, i: 3
thread 3704312, i: 4
main finishedvahen@ubuntu-aua-os:~/CS331_operating_systems/9_threads_basics$ ./build/3_nums
thread 3704314, i: 0
thread 3704314, i: 1
thread 3704314, i: 2
thread 3704314, i: 3
thread 3704314, i: 4
thread 3704315, i: 0
thread 3704315, i: 1
thread 3704315, i: 2
thread 3704315, i: 3
thread 3704315, i: 4
thread 3704316, i: 0
thread 3704316, i: 1
thread 3704316, i: 2
thread 3704316, i: 3
thread 3704316, i: 4
main finishedvahen@ubuntu-aua-os:~/CS331_operating_systems/9_threads_basics$ ./build/3_nums
```

4 squares

```
vahesh@ubuntu-aua-os:~/CS331_operating_systems/9_threads_basics$ ./build/4_square
thread 3704384, square of 1 is 1
thread 3704385, square of 2 is 4
thread 3704386, square of 3 is 9
thread 3704387, square of 4 is 16
thread 3704388, square of 5 is 25
main finishedvahesh@ubuntu-aua-os:~/CS331_operating_systems/9_threads_basics$ ./build/4_square
thread 3704390, square of 1 is 1
thread 3704391, square of 2 is 4
thread 3704392, square of 3 is 9
thread 3704393, square of 4 is 16
thread 3704394, square of 5 is 25
main finishedvahesh@ubuntu-aua-os:~/CS331_operating_systems/9_threads_basics$ ./build/4_square
thread 3704396, square of 1 is 1
thread 3704397, square of 2 is 4
thread 3704398, square of 3 is 9
thread 3704399, square of 4 is 16
thread 3704400, square of 5 is 25
main finishedvahesh@ubuntu-aua-os:~/CS331_operating_systems/9_threads_basics$ ls
```