Homework 9

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https://github.com/ararat-aua/Operating-systems-HW/tree/main/hw9

Task 1 (Basic thread creation)

```
[ararats@ubuntu-aua-os:~/Operating-systems-HW/hw9$ ./1
Thread 140243671971520 is running!
Thread 140243663578816 is running!
Thread 140243655186112 is running!
```

Task 2 (Array processing with threads)

```
[ararats@ubuntu-aua-os:~/Operating-systems-HW/hw9$ ./2
Thread 1 sum: 50
Thread 1 sum: 50
```

Task 3 (Printing numbers with threads)

```
[ararats@ubuntu-aua-os:~/Operating-systems-HW/hw9$ ./3
Thread 1: 1
Thread 1: 2
Thread 1: 3
Thread 1: 4
Thread 1: 5
Thread 3: 1
Thread 3: 2
Thread 3: 3
Thread 3: 4
Thread 3: 5
Thread 2: 1
Thread 2: 2
Thread 2: 3
Thread 2: 4
Thread 2: 5
```

Task 4 (Calculate square of numbers in parallel)

```
[ararats@ubuntu-aua-os:~/Operating-systems-HW/hw9$ ./4
Square of 1 is 1
Square of 4 is 16
Square of 2 is 4
Square of 3 is 9
Square of 5 is 25
Square of 6 is 36
Square of 7 is 49
Square of 8 is 64
Square of 9 is 81
Square of 10 is 100
Square of 11 is 121
Square of 12 is 144
Square of 13 is 169
Square of 14 is 196
Square of 15 is 225
Square of 16 is 256
Square of 17 is 289
Square of 18 is 324
Square of 19 is 361
Square of 20 is 400
Square of 21 is 441
Square of 22 is 484
Square of 23 is 529
Square of 24 is 576
Square of 25 is 625
Square of 26 is 676
Square of 27 is 729
Square of 29 is 841
Square of 30 is 900
Square of 32 is 1024
Square of 28 is 784
Square of 31 is 961
Square of 33 is 1089
Square of 34 is 1156
Square of 35 is 1225
Square of 36 is 1296
Square of 37 is 1369
Square of 38 is 1444
Square of 39 is 1521
Square of 40 is 1600
Square of 41 is 1681
Square of 42 is 1764
Square of 43 is 1849
Square of 44 is 1936
Square of 48 is 2304
Square of 49 is 2401
Square of 50 is 2500
Square of 45 is 2025
Square of 46 is 2116
Square of 47 is 2209
```