

# Report

## Link to github repository:

<https://github.com/DMelkonyan111/Parallel-and-HPC-Homeworks>

### Assignment 1

```
● davitm@ubuntu-ua-os:~/workshop/Homeworks/2$ ./HW-2
The address of the first thread is 123246462629568
The address of the second thread is 123246454236864
The address of the third thread is 123246445844160
```

### Assignment 2

```
Sequential sum: 27510820
Sequential time: 0.007 seconds

Parallel sum: 27510820
Parallel time with 10 threads: 0.018 seconds
```

### Assignment 3

```
Sequential max: 10000
Sequential time: 0.072 seconds

Parallel max: 10000
Parallel time with 4 threads: 0.098 seconds
```

### Assignment 4

```
Sequential count: 78498
Sequential time: 0.307 seconds

Parallel count: 78498
Parallel time with 10 threads: 0.330 seconds
```

