

Homework: Operating Systems

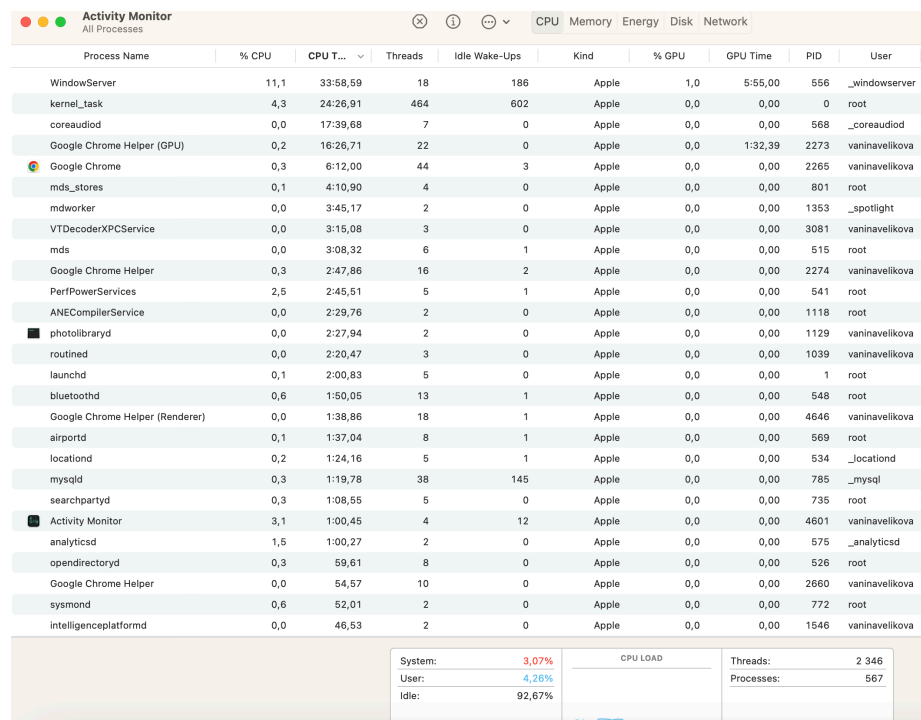
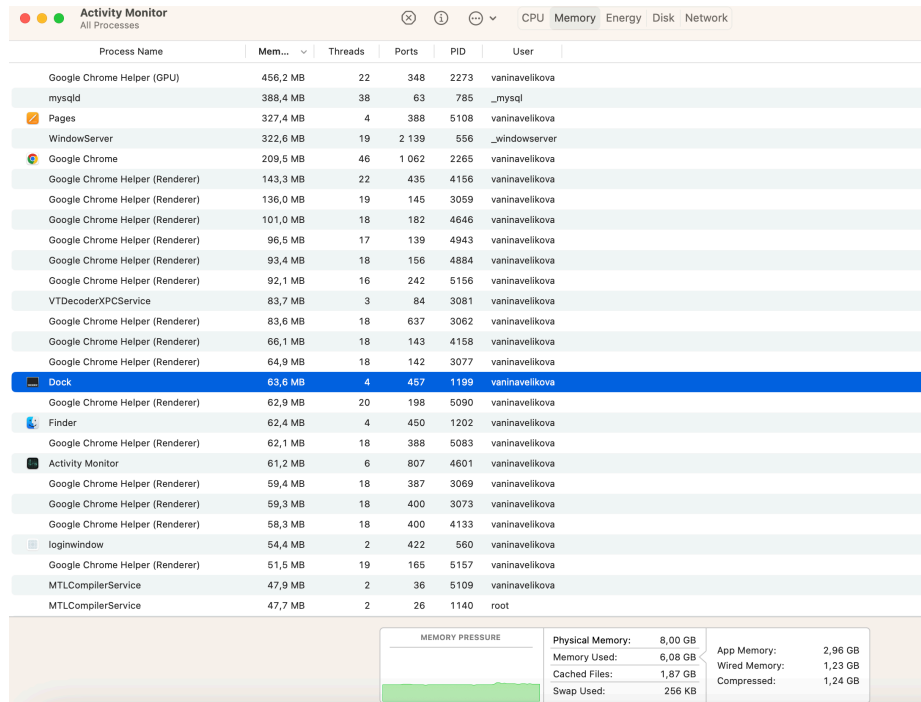
Problems for homework for the ["Software Technologies" course @ Software University.](#)

Submit this document as your homework.

1. Work with Task Manager in Windows

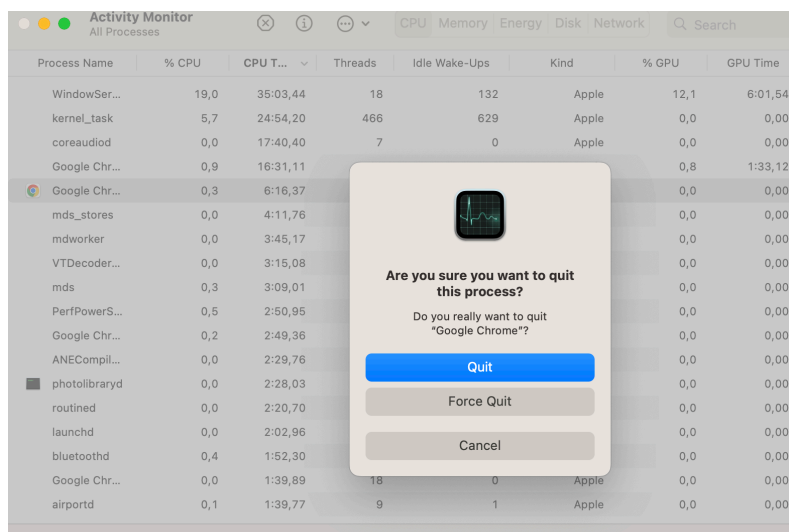
1. View processes:

- Open Task Manager and view the list of running processes.
- Identify any processes that are using a high amount of CPU or RAM.



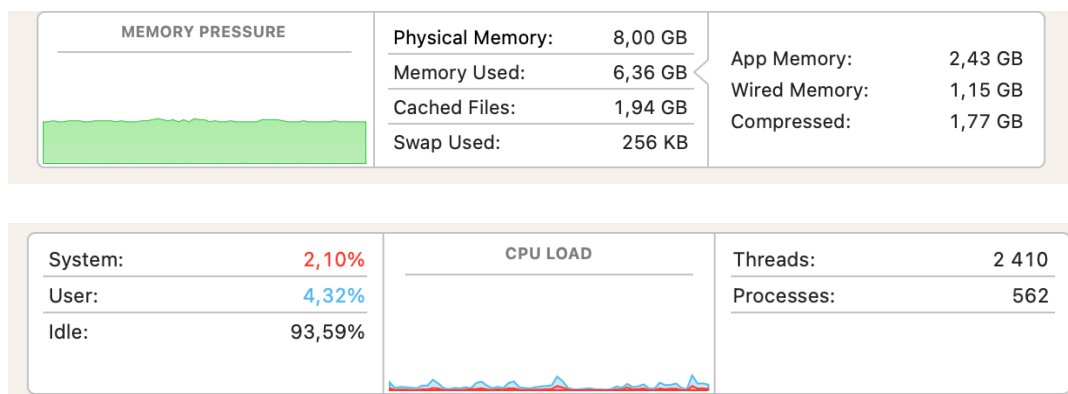
2. Kill a process:

- Select a process from the list and end the task.



3. View CPU & RAM usage:

- Navigate to the Performance tab in Task Manager and view the CPU & Memory usage.



2. Play with Windows Terminal

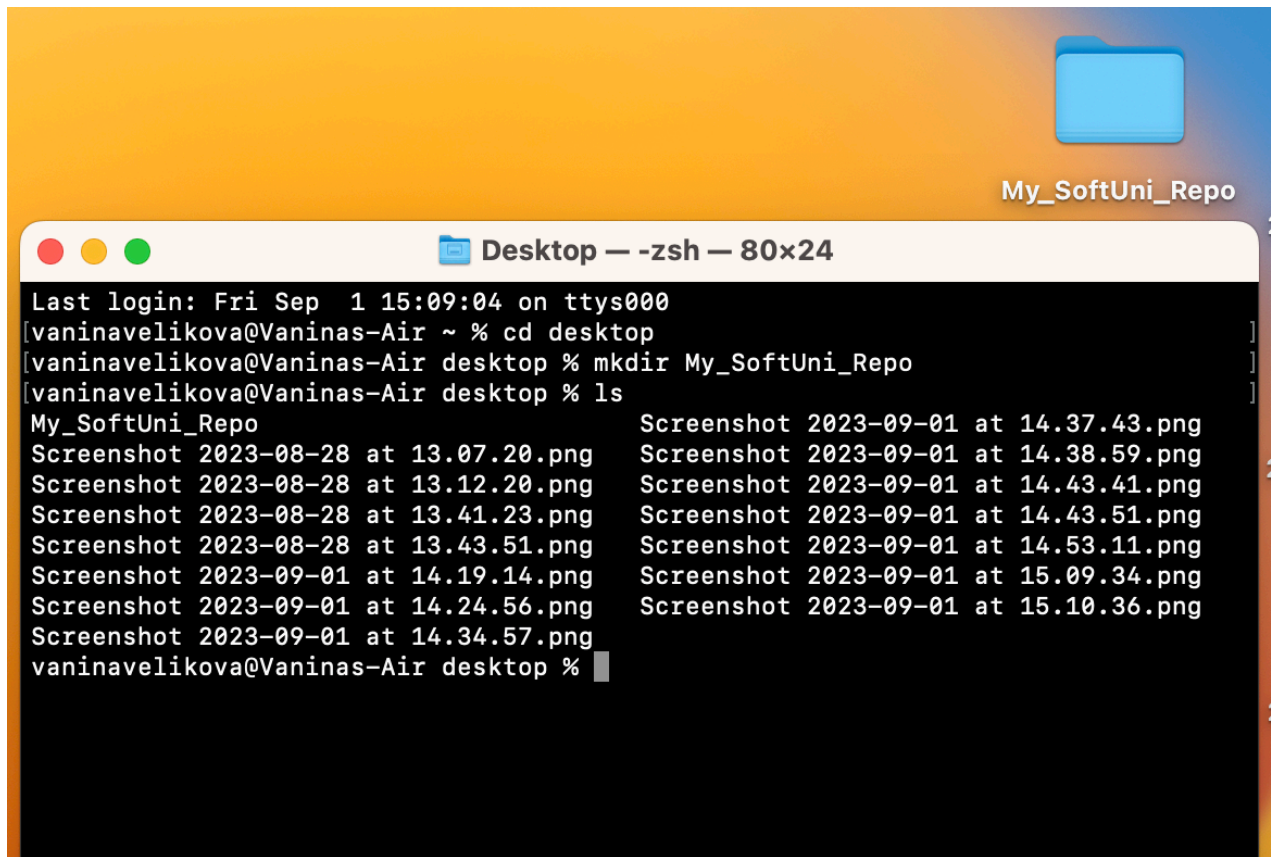
1. Navigate Directories:

- Use the "cd" command to navigate to different directories in the Windows Terminal:

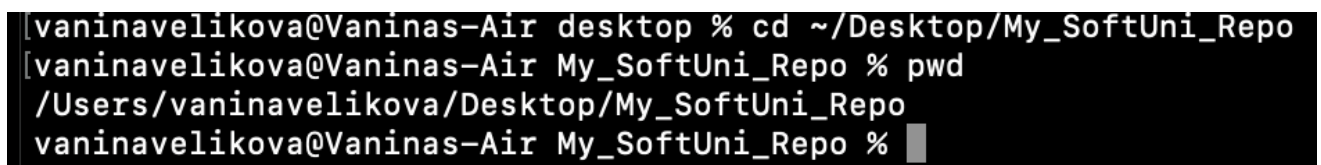
- Desktop
- Documents
- Downloads

```
Downloads — -zsh — 80x24
Last login: Fri Sep 1 15:03:26 on ttys000
[vaninavelikova@Vaninas-Air ~ % cd documents
[vaninavelikova@Vaninas-Air documents % cd ~
[vaninavelikova@Vaninas-Air ~ % cd desktop
[vaninavelikova@Vaninas-Air desktop % cd ~
[vaninavelikova@Vaninas-Air ~ % cd downloads
[vaninavelikova@Vaninas-Air downloads % ]
```

- Create folder named My_SoftUni_Repo on the Desktop through the Terminal.



- Enter the created folder through the Terminal and make a screenshot:



3. Play with Docker Playground & Run a Linux Shell inside

1. Run your own container in Docker Playground and make an HTTP request from Linux Shell:

- Your task is to run a new docker container and make an HTTP request to the following API: <https://api.zippopotam.us/>
- Extend the URL with "de" for Germany, and find a valid postal code that you can use to extract information from the API.
- Replace the example images with your own screenshots.

```
[node2] (local) root@192.168.0.12 ~
$ curl -s https://api.zippopotam.us/de/15230 | jq
{
  "post code": "15230",
  "country": "Germany",
  "country abbreviation": "DE",
  "places": [
    {
      "place name": "Frankfurt (Oder)",
      "longitude": "52.3475",
      "state": "Brandenburg",
      "state abbreviation": "BB",
      "latitude": "12053"
    }
  ]
}
```

```
[node2] (local) root@192.168.0.12 ~
$ curl -s https://api.zippopotam.us/de/90402 | jq
{
  "post code": "90402",
  "country": "Germany",
  "country abbreviation": "DE",
  "places": [
    {
      "place name": "Nürnberg",
      "longitude": "11.0778",
      "state": "Bayern",
      "state abbreviation": "BY",
      "latitude": "49.4504"
    }
  ]
}
```

