1. We've prepared a server for you it's called Hermes (195.133.216.210). Each of you have your own ID <first letter of your name + whole surname>, password is the same
2. Go to `~/.ssh/` and check if you have a pair of SSH keys there. If not, generate them with `ssh-keygen -o -a 100 -t ed25519`. It is recommended that you use a password and use ssh-agent , more info here.
3. Edit .ssh/config to have an entry as follows

```
Host server

    User username_goes_here

    HostName ip_goes_here

    IdentityFile ~/.ssh/id_ed25519

    LocalForward 9998 localhost:<PORT1>

    LocalForward 9999 localhost:<PORT2>
```

4. Use ssh-copy-id server to copy your ssh key to the server.
5. Start a webserver in your VM by executing `python -m http.server <PORT1>`. Access the VM webserver by navigating to `http://localhost:9999` in your machine.
6. Start `tmux` and create tabs in it with `Ctrl, b` then `Ctrl, c`
7. Get Anaconda package using wget https://repo.anaconda.com/archive/Anaconda3-2020.07-Linux-x86_64.sh. Install it with bash
8. Install Flask and create `app.py`

```
from flask import Flask

app = Flask(__name__)

@app.route('/')

def hello_world():
```

```
    return 'Hello, World!'
```

Start application with `flask run --host=0.0.0.0 --port=1393`. Go to `localhost:9998` and check application response

9. Install `vscode-server` from https://github.com/cdr/code-server. Add binary to `.bashrc` and start it with

```
PASSWORD=pass1234 code-server --port <PORT2>
```

   Go to `localhost:9999` and check vscode

10. (Optional) Look into what the -N and -f flags do in ssh and figure out what a command to achieve background port forwarding.