AIMA CODE INSTALLATION INSTRUCTIONS - WITH DOCKER ON LINUX

The following two steps are required to set up a programming environment that allows you to execute the *Jupyter Notebooks*:

1. Installation of *Docker Desktop*

2. Download of the aitum/aidocker image

1 Installation of Docker

We recommend installing docker by downloading **the repository for Docker**. This can be done by opening a console and typing the following commands:

1. `sudo apt-get update`

2. `sudo apt-get install ca-certificates curl gnupg lsb-release`

    If you get the following error:

    You can just kill the process and move on (in this case, the process is 5878, check which process you have in the error message):

    `sudo kill 5878`

3. `sudo mkdir -p /etc/apt/keyrings`

4. `curl -fsSL https://download.docker.com/linux/ubuntu/gpg \`
   `| sudo gpg --dearmor -o /etc/apt/keyrings/docker.gpg`

5. `echo "deb [arch=$(dpkg --print-architecture) \`
   `signed-by=/etc/apt/keyrings/docker.gpg] \`
   `https://download.docker.com/linux/ubuntu \`
   `$(lsb_release -cs) stable" \`
   `| sudo tee /etc/apt/sources.list.d/docker.list > /dev/null`

6. `sudo apt-get update`

7. `sudo apt-get install docker-ce docker-ce-cli \`
   `containerd.io docker-compose-plugin`

2 Download of the aitum/aidocker image

Open the Terminal and write the following commands

1. `sudo docker pull aitum/aidocker`

   (This will take a while)

2. `mkdir ~/homework`

   (creates a homework folder to put the homeworks)

3. `sudo docker run -d --restart unless-stopped -p 8888:8888 \`
   `-v ~/homework:/work/homework -v /var/lib/docker:/docker \`
   `--name aitum aitum/aidocker`

4. Go to `http://localhost:8888/` with your browser

You just need to run these commands one time. Then, every time you want to work on docker, you can just go to `http://localhost:8888/`. You will find all the notebooks of the lecture in the root folder (they end with `.ipynb`), and you can add your own notebooks and/or the homework assignments in the `homework` folder that is available to you locally in your home folder, and then navigate to the `homework` folder displayed when you open `http://localhost:8888/tree/homework`.

3 Stopping or Removing the Docker Container

If you plan to use Jupyter Notebooks for another lecture, you might want to stop the container by typing the following command in a console:

`sudo docker stop aitum`

You can then restart the container at your leisure using the command

`sudo docker start aitum`

In case you need to completely remove the container, you first need to stop it:

`sudo docker stop aitum`

You can then remove the container:

`sudo docker rm aitum`