Environment

1 Assignment 1, 3

Ubuntu 18.04 is needed to do assignments. The correct version can be downloaded here. There are three ways to install an OS. Choose the method that is most convenient for you and follow the instruction

1.1 Native install

1. https://ubuntu.com/tutorials/tutorial-install-ubuntu-desktop instruction must be done for the native installation

1.2 Virtual Box

1. VirtualBox can be downloaded from this link https://www.virtualbox.org/wiki/Downloads
2. https://www.wikihow.com/Install-VirtualBox the installation VirtualBox instruction
3. https://linuxhint.com/install_ubuntu_18-04_virtualbox/ instruction for installing ubuntu 18.04 in a VirtualBox

1.3 Docker

1. https://docs.docker.com/engine/install/ instructions for installing a docker
2. Start the image:

```
sudo docker run --rm -it ubuntu:18.04
```

Once the operating system is installed, you need to install the following packages.

```
apt update
apt install clang
```

```
apt install vim
apt install telnet
```

or

```
sudo apt update
sudo apt install clang
sudo apt install vim
sudo apt install telnet
```

To check your environment and packages, create a main.c file with the following content:

```c
#include <stdio.h>

int main()
{
    printf("Hello world!\n");
}
```

And the last step is to compile and run

```
clang main.c
./a.out
```

3. If we do not want to constantly run the image from scratch and install packages on it, we can save and run it using the following commands:

```
sudo docker run -it ubuntu:18.04 # create
sudo docker ps -a # list instances
sudo docker start -ai <image_hash> # start
```

2 Assignment 2, 4*

Java 11, IDE, Node JS needed to complete the next assignments

1. https://adoptopenjdk.net/ download jdk for java
2. https://www.jetbrains.com/idea/download/index.html Community IDEA will be enough to do assignments
3. https://nodejs.org/en/ link to download node JS