

# os-assignment1 readme file

# Getting the latest version of Linux Kernel source code from kernel.org.

\$ wget https://cdn.kernel.org/pub/linux/kernel/v5.x/linux-5.19.7.tar.xz

# Extracting the tar file that we downloaded.

\$ tar -xf linux-5.19.7.tar.xz

# Switching to linux (that we installed) directory.

\$ cd linux-5.19.7

# Configuring the features of linux kernel.

\$ cp /boot/config-\$(uname -r) .config

# Installing the required dependencies.

\$ sudo apt-get install build-essential libncurses-dev bison flex libssl-dev libelf-dev

# Configuring the kernel.

\$ make menuconfig

# Compiling the kernel.

\$ make -j 4

# Installing the kernel modules

\$ sudo make modules\_install

# Installing the compiled kernel

\$ sudo make install

# Showing the latest kernel that we installed.

\$ uname -r