Exercise 1.
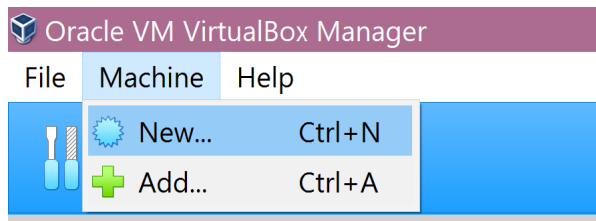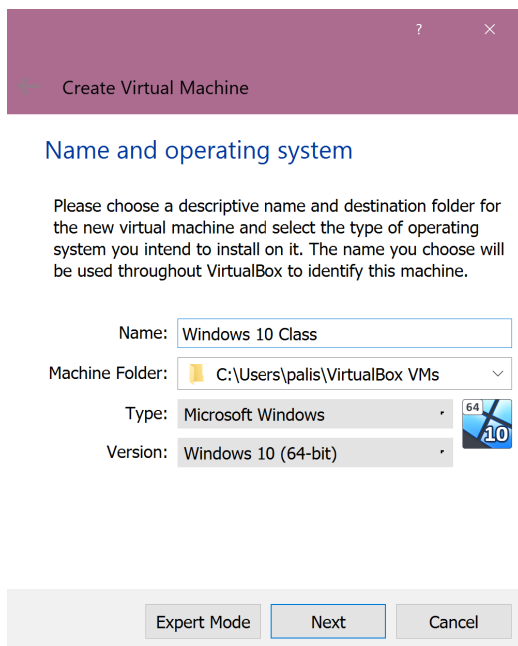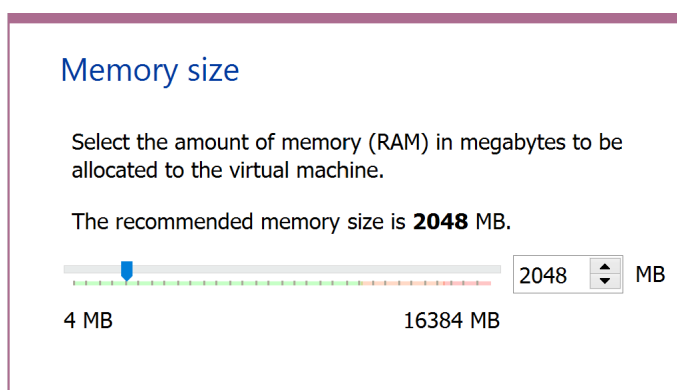
First we click "Machine -> New"

Then we choose the Operating System (OS) and file location.

Next we establish the RAM memory in the virtual machine (VM) , in this case 2GB.

The next step is to create a Hard Disk.
Using the guided mode, we choose step by step.

Hard disk

If you wish you can add a virtual hard disk to the new machine. You can either create a new hard disk file or select one from the list or from another location using the folder icon.

If you need a more complex storage set-up you can skip this step and make the changes to the machine settings once the machine is created.

The recommended size of the hard disk is **50,00 GB**.

○ Do not add a virtual hard disk
● Create a virtual hard disk now
○ Use an existing virtual hard disk file

Empty

Create   Cancel

Hard disk file type

Please choose the type of file that you would like to use for the new virtual hard disk. If you do not need to use it with other virtualization software you can leave this setting unchanged.

● VDI (VirtualBox Disk Image)
○ VHD (Virtual Hard Disk)
○ VMDK (Virtual Machine Disk)

As specified on the exercise we must choose a dynamically allocated hard drive.

Storage on physical hard disk

Please choose whether the new virtual hard disk file should grow as it is used (dynamically allocated) or if it should be created at its maximum size (fixed size).

A **dynamically allocated** hard disk file will only use space on your physical hard disk as it fills up (up to a maximum **fixed size**), although it will not shrink again automatically when space on it is freed.

A **fixed size** hard disk file may take longer to create on some systems but is often faster to use.

● Dynamically allocated
○ Fixed size

Finally we choose the location of the file and its size limit, in this excersice 50 GB, and we click on create.

File location and size

Please type the name of the new virtual hard disk file into the box below or click on the folder icon to select a different folder to create the file in.

irtualBox VMs\Windows 10 Class_\Windows 10 Class_.vdi

Select the size of the virtual hard disk in megabytes. This size is the limit on the amount of file data that a virtual machine will be able to store on the hard disk.
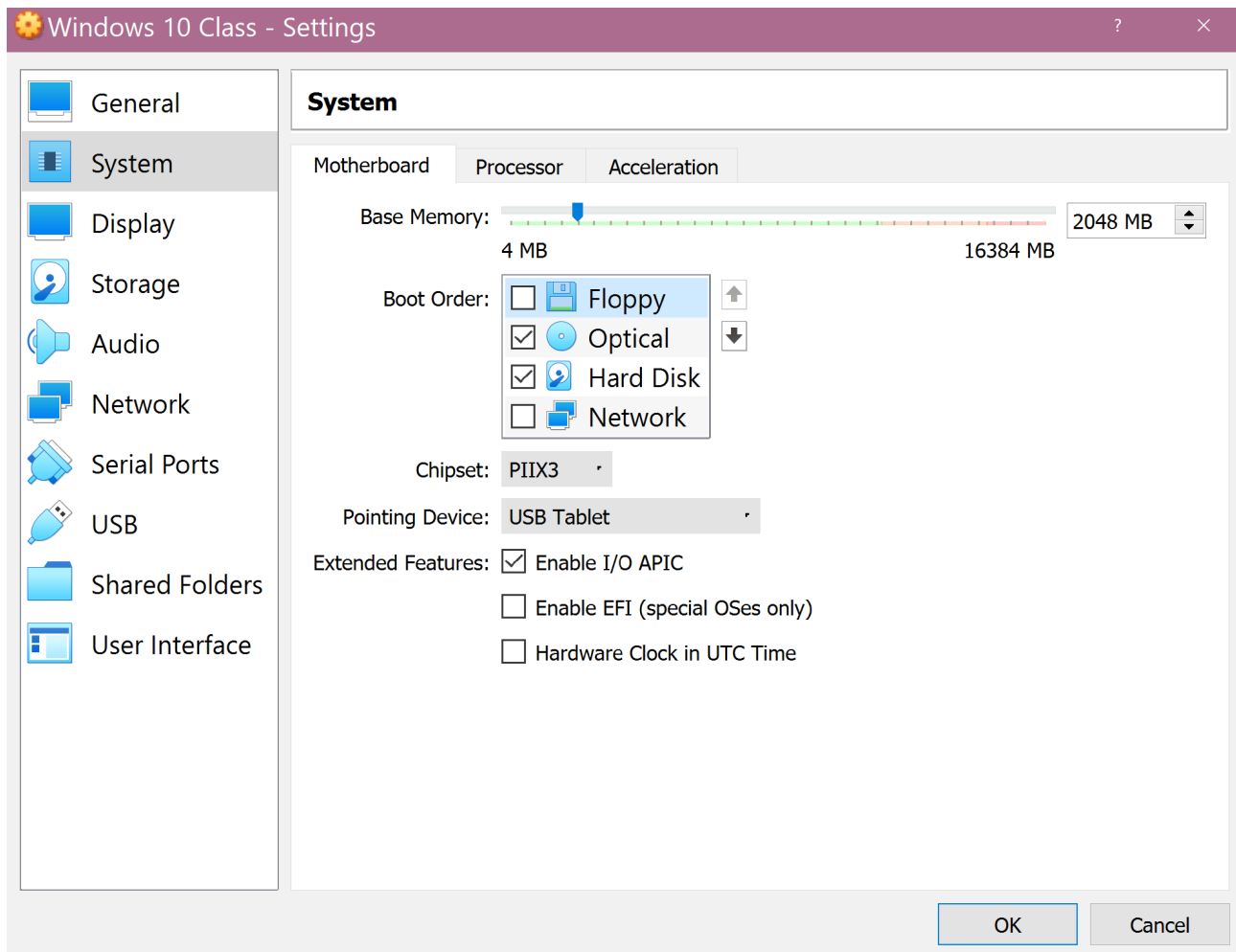
50,00 GB

4,00 MB   2,00 TB

Create   Cancel

Now the Virtual Machine is created, but we need the Boot order and add another Hard drive.

To change the boot order we go to "Settings => System => Motherboard" and in the section "Boot Order:" we uncheck the boxes we are not going to use, in this case "Floppy Disk".

To add another Hard Drive we stay in Settings and change from "Systems => Storage". There we see the Hard Drive we already made while creating the VM.
To add a new one we click "Controller: SATA".
Two new icons will appear and we must click the one on the right.
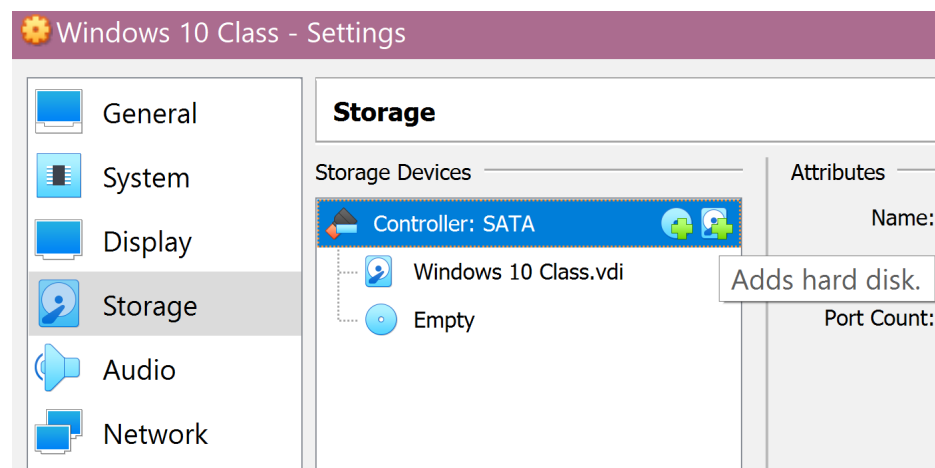
On the window that pops up we click the icon "Create"

Name	Virtual Size	Actual Size
⌄ Attached		
Windows 10 Class.vdi	50,00 GB	2,00 MB

It will once again take us through the process of creating a hard drive. This time we have to choose 30GB size limit.

File location and size

Please type the name of the new virtual hard disk file into the box below or click on the folder icon to select a different folder to create the file in.

VirtualBox VMs\Windows 10 Class\Windows 10 Class_1.vd

Select the size of the virtual hard disk in megabytes. This size is the limit on the amount of file data that a virtual machine will be able to store on the hard disk.

30,00 GB

4,00 MB   2,00 TB

Then we click on the file we just created and click "Choose" at the bottom to attach it to our VM.

Windows 10 Class - Hard Disk Selector   ?   ×

Medium

Name	Virtual Size	Actual Size
⌄ Attached		
Windows 10 Class.vdi	50,00 GB	2,00 MB
⌄ Not Attached		
Windows 10 Class_1.vdi	30,00 GB	2,00 MB

Search By Name ·

| Choose | Cancel |

And Finally back in Settings Click "ok" to save changes.