

Due date:

The due date for this lab assignment is 11:59 pm on September 20th, 2017.

Marks:

5 Marks.

Submission Guidelines

Download Lab 2 from Blackboard and type your answers to the questions in the lab document. When you have finished filling in the answers to the best of your ability; copy over the questions and your answers into a blank Microsoft Word document. Save the file using your first and last name and the lab number as the file name. Example: Matthew_Smith_Lab 2.docx and submit via *your* lab instructors Blackboard site.

The submitted document must be in MS-Word format. If you submit the lab in any other format you will receive a mark of zero!

Objective:

In this exercise, you will be identifying the components and features of your laptop. This will help you to understand the limitations of your particular machine as well as its strengths.

Required equipment and supplies:

- College approved BYOD Laptop
- Network Connection to the World Wide Web
- Blackboard

Additional Information:

A laptop computer contains a number of features which allow users to perform various tasks and easily transport their computer to a comfortable productive working environment or to a location where the work must be performed.

Things to consider when acquiring a laptop computer are:

- A. Weight and size. Large or wide-screens are often easier to read, but generally increases the size and weight of the device. Making it hard for some users to carry the laptop around.
- B. Battery capability. Battery life is among the prime considerations. Newer battery technology reduces the weight of the battery, increases the amount of charge the battery can hold, and the working life of the battery is often extended.
- C. Connectivity features. Most users want a laptop with a variety of connectivity options. A wired Ethernet jack and Wi-Fi are generally must-haves. Better Wi-Fi and other connectivity options such as USB, Fire wire, and Bluetooth are also important considerations.

- D. Disk/Persistent storage. Size, speed, power requirements and cost are important factors when considering mass storage.

Procedure:

The following instructions will guide you through the lab exercise, if you have any questions feel free to ask your lab professor.

Basic System Information:

Make and Model of the laptop:

To find out your make and Model of your laptop:

- The manufacture of the laptop can often be found the screen of the laptop either on the bottom or the back of the screen.

To find the Model of your laptop:

- Look around the keyboard, often the manufactures will often place it either on the bottom left of the keyboard.

1. Make and Model of the Laptop:

Operating System and Edition Type:

To find out your operating system information in Windows 10:

- Go to Start, enter **About your PC**, and then select **About your PC**.
- Look under **PC** for **Edition** to find out which version and edition of Windows that your PC is running.

2. Operating Systems and Edition Type:

The Processor information can be found by:

- By pressing the CTRL-ALT-DEL keys at the same time and then selecting the Task Manager
- Click on the **Performance** tab find out your processor type and speed.

3. Processor type and Speed:

4. Number of Processor Cores:

- a. Physical:
- b. Logical:

5. Is Virtualization Enabled: Yes/No

To find the amount of RAM that your laptop has installed.

- Go to Start, enter **System**, and then select **System** icon.

- Look under **Installed Memory (RAM)** to find out how much RAM is installed on your machine.

6. Installed memory (RAM): GB

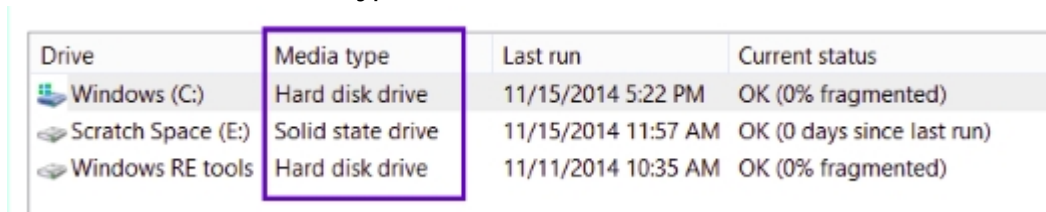
To find out your hard drive storage capacity, you can:

- Use the keyboard shortcut, Windows key + E or tap the folder icon in the taskbar.
- Right-click on the hard drive icon and select properties
- You can see the capacity your hard disk above the C: drive icon.

7. Storage Capacity:

To find out the storage type of your hard drive, you can:

- Press the **Windows** key, searching for **optimize** or **defrag** depending on your version of windows
- Select the **Defragment and optimize** drive utility.
- Look under the Media type to find out if you have a mechanical SATA drive or a solid state hard drive. If it displays Hard Drive then you know you have a mechanical drive. If the media type displace solid state then you know you have a solid state hard drive.
- I have included an example screen capture below to help illustrate the difference between the hard drive types.



Drive	Media type	Last run	Current status
Windows (C:)	Hard disk drive	11/15/2014 5:22 PM	OK (0% fragmented)
Scratch Space (E:)	Solid state drive	11/15/2014 11:57 AM	OK (0 days since last run)
Windows RE tools	Hard disk drive	11/11/2014 10:35 AM	OK (0% fragmented)

Figure 1. Media Types - hard drives.

8. Storage Type(s):

9. Optical Drive: Yes/No

If you have an optical drive; what type is it? If you look at the outside of your optical drive, you may be able to see what type of optical drive you have from the label. Hint:

You may also want to look at the manufacturer's web page for your specific model of laptop and examine the specifications page.

You can also press the Windows key and type in **Device Manager**, then select the **device manager** program. If you see "CD-ROM" or "DVD," click the ">" next to "CD-ROM" to see the optical drive information.

10. Optical Drive type:

11. USB Ports: How many: Type: example: 2.0/3.0 or C

12. VGA Port: Yes/No

13. HDMI Port: Yes/No

14. Web Camera: Yes/No

15. Ethernet port: Yes/No

16. Separate Graphics Card: Yes/No

17. Screen size:

18. Miscellaneous – These are items/features that your laptop has but are not listed above:

19. Now that you have had your laptop for a while, what do you like about it? What do you dislike about it?

When you have finished filling in the answers to the best of your ability; copy over the questions and your answers into a blank Microsoft Word document. Save the file using your first and last name and the lab number as the file name. Example:

Matthew_Smith_Lab 2.docx and submit via ***your lab instructors Blackboard site.***

Lab 2 Submission

To submit the lab assignment follow these steps:

1. Log in to Blackboard and click on the CST8101 Computer Essentials course link. Then select the Weekly Lab Assignments link (located on the left hand side of the page)
2. Click on the Lab 2 folder link.
3. Click on the purple Lab 2 link above, attach the completed lab assignment, then click submit. You have two attempts to upload this assignment. The last submission will be the one marked.

CST8101 Check List

3 Marks	All the questions are answered; No missing answers
1 Mark	Answers are easily understood by the lab instructor
1 Mark	Lab 2 was submitted on time and in the correct format
5 Marks	Total