

Introduction to Computer Science

Exercise 1

1. **Computer Science Terms**

Explain and categorize the following terms and assign it (if possible) to one or more of the following five topics **operating system**, **hardware,** **software,** and (local) **network,** or **internet.** Give a brief explanation of the term.

| **Term** | **Topic (Explanation)** |
| --- | --- |
|  |  |
| Authentication |  |
| Authorization |  |
| Architecture (Hardware) |  |
| Architecture (Software) |  |
| ASCII |  |
| Asynchronous communication |  |
| Big Data |  |
| BIOS |  |
| Bot |  |
| Browser |  |
| Cookie |  |
| CPU |  |
| Dead Lock |  |
| DHCP |  |
| DNS Server |  |
| Device Driver |  |
| Download |  |
| Drop Box |  |
| Ethernet |  |
| FIFO |  |
| Filesystem |  |
| Firewall |  |
| Freeware |  |
| HTML / HTTP |  |
| Interface |  |
| Interrupt |  |
| IP address / MAC address |  |
| LAN |  |
| Memory (RAM) |  |
| Multithreading / Multitasking |  |
| Path |  |
| Protocol (TCP/IP) |  |
| Process |  |
| Public Key Cryptosystem |  |
| Router |  |
| Scheduler |  |
| Share |  |
| Shortcut |  |
| Software Design |  |
| Software Specification |  |
| Source Code |  |
| Timeout |  |
| Thread (Thread-safe) |  |
| Trojan/Virus/Worm |  |
| UNIX / Linux |  |
| UML |  |
| URL |  |
| Virtual Server |  |
| Virtual Memory |  |
| VPN |  |
| XML / XML Schema / XPath… |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

1. **Your work equipment**

Find out the following from your computer (laptop, notebook):

* What is your computers name, (not the login name)?
* What kind of operating system do you have? Which version?
* How much memory does your computer have?
* What is the screen resolution of your computer?
* How many processors does your computer have?
* How fast is/are your processor(s) (clock rate)?
* How many tasks are running on your computer at this moment? Which ones?
* How much memory do they occupy?