Assignment #1 

| TERM | Name – Student ID | COURSE CODE | WEIGHT |
| --- | --- | --- | --- |
|  | DEV – DASONI4 | CSN105 | 7.5% |

Assignment Objectives

Upon completion of this assignment, you will be able to perform the following:

* Explain the benefits of each PC hardware component
* Compare, contrast, and recommend PC hardware components in order to build an appropriate computer for its intended use.
* Access resources from Websites and Seneca’s online library

Assignment Materials

* Part 2 from “[Building](https://senecacollege-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=01SENC_ALMA5147270850003226&context=L&vid=01SENC&search_scope=default_scope&tab=default_tab&lang=en_US) a PC for dummies” [optional]
* Part 2 from “[Building the Perfect PC](https://www-safaribooksonline-com.libaccess.senecacollege.ca/library/view/building-the-perfect/9781449397548/?ar&orpq)” [optional]
* PC Building Simulator: Education Edition [optional]

Assignment Instructions

* Enter your name and student ID above (Example: david – dtrinh)
* Answer questions and add screenshots into the corresponding textboxes
* Save the file on your computer for future reference
* Save the file again as a “.pdf” file
* Submit the PDF file for grading

Assignment Rubric

Each component explanation will be graded using this rubric.

|  |  |
| --- | --- |
| **Grade** | **Comment** |
| **3** | Provides in-depth explanations and considerations |
| **2** | Provides adequate explanations and considerations |
| **1** | Provides poor explanations and considerations, missing relevant information |
| **0** | No explanation or considerations |

Part 1: Scenario

You are an IT contractor for Seneca College. Seneca has numerous programs and needs recommendations for computers in each program. You have been assigned a program on Blackboard [check “My Grades”]. You must source out PC hardware components for this program. Seneca wants a custom-built computer and **does not** want pre-built vendor computers like Dell, HP, and Lenovo.

Part 2: Planning [15 marks]

Before sourcing PC hardware components for your program, it is important to understand what software is needed. Using online resources, list out 5 applications the program will use **and** the hardware requirements for each of the applications.

**Software Applications**

|  |  |
| --- | --- |
| **Software [1 mark each]** | **Hardware Requirements [2 marks each]** |
| What software will this department use? | What are the hardware requirements for this software? |
| 1. Software 1 : OFFICE 365 (WORD) | 3 GIGA BYTES of storage (Disk space) |
| 2. Software 2 : ADOBE ACROBAT DC | Intel core i3-6100 |
| 3. Software 3 : ADOBE PREMIERE RUSH | 4 GB RAM or higher recommended |
| 4. Software 4 : ADOBE PREMIERE PRO | VRAM of 2 GB |
| 5. Software 5 : SKYPE | 2 GHz or higher processor |

Part 3: Sourcing [20 marks]

Based on your planning, find PC hardware components to meet the hardware requirements for your program. Provide a link to the website of where to buy the component, the price of the component, and an explanation for the selected component. When explaining why a component was selected, use the following to formulate your response:

* What are 3 technical specifications of the component you selected?
* Why are each of these specifications important for the program?

Program Name: ***PARALEGAL PROGRAM***

|  |  |  |
| --- | --- | --- |
| **PC hardware component  [1 mark each]** | **Cost** | **Explanation  [3 marks each]** |
| Intel core i3-6100 | $ 117.00 | Technical Specifications :-   1. Cores : 2 and threads : 4 – so it is clear that the processor is a multiprocessor and it will be useful to run more than one program at the same time. 2. Base Frequency : 3.7 GHz – and our minimum requirement for running SKYPE and other programs was 2GHz. 3. Cache speed : 3 MB - so it has higher cache speed means will be able to run processes and data faster. |
| Website: www.amazon.ca | | |
| ADATA XPG Z1 8GB 4400 MHz | $ 220.00 | Technical Specifications :-   1. RAM Memory : 8 GB – The minimum specification was 4 GB so this RAM would be suitable for almost every softwares in the PC. 2. High Frequency speed – 2666 MHz for storing and retrieving data. 3. It supports memory overclocking – so in order to achieve much higher speeds. |
| Website: www.amazon.ca | | |
| Seagate BarraCuda 500GB 32MB cache | $ 60.00 | Technical Specifications :-   1. Storage : 500 GB available space which is more than sufficient for all the programs to run. 2. READ AND WRITE SPEED – Around 7200 RPM for accessing and inputing the datas. 3. SATA 6 GB/s interface allow burst performance. |
| Website: www.amazon.ca | | |
| NVIDIA GeForce GTX 1050 | $ 465.00 | Techincal Specifications :-   1. VRAM – 4 GB – which satisfies the minimum requirement of the listed program. 2. Base frequency – 1354 MHz 3. Maximum frequency – 1493 MHz   This range of frequency is sufficient for running any program which are listed above. |
| Website: www.amazon.ca | | |
| GIGABYTE GA-Z270X-Gaming 8 | $ 450.00 | Technical Specifications :-   1. This motherboard has 4 memory slots :   So, more storage can be accommodated.   1. Maximum capacity is 64 GB which is more than sufficient for all the softwares.   Moreover, it has PCIe Slots with 16 channels which can support other graphics cards thus making the PC more procifient then before.   1. Maximum speed is 4133 MHz which is really good for this PC and can run almost any software listed above without any issues. |
| Website: www.amazon.ca | | |