Activity #1: Computer Hardware

Purpose:

Build a computer system based on user requirements.

Pre-Lab:

Read 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”  
Read Part 2 from “[Building the Perfect PC](https://senecacollege-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=01SENC_ALMA5153208880003226&context=L&vid=01SENC&search_scope=default_scope&isFrbr=true&tab=default_tab&lang=en_US)”  
Use these online textbooks as reference for the Activity.

Activity:

You are a contractor for a mid-sized software company. There are 3 major departments within the company: Administrators, Developers, IT Support.

The computers are approximately 3 years old and need to be replaced. You must source out components and assemble new machines for each department. Due to political reasons within the organization, pre-built computer systems are not permitted.

1. Understand your customer. **[6 marks]**
   1. Write a brief description of why each department needs a computer.
2. Source out computer hardware components. **[6 marks]**
   1. Ensure detail specifications are included for each component.
3. Explain why each component was chosen. **[12 marks]**
4. Read Chapter 4 from “Building the Perfect PC” and answer the following questions: **[10 marks]**
   1. What considerations are needed when choosing a Power Supply?
   2. What considerations are needed when choosing a Processor?
   3. What considerations are needed when choosing a Motherboard?
   4. What considerations are needed when choosing a Memory?
   5. What considerations are needed when choosing a Hard Drives?
5. Prepare the information in a report format **[6 marks]**
   1. Include title page, table of contents, recommendation(s), conclusion, reference(s)

Submission Instructions:

* Submit a report (PDF) via Blackboard

Grade Weight:

40 marks [3% of Final Grade]