**Aniag, Angeline S.**

**BSIT-1108**

**Activity 1**

Try using “Speccy” and look at the following specifications:

* **CPU**

**Answer: Intel(R) Core(TM) i5-5200U CPU @2.20GHz 2.20GHz**

* **RAM**

**Answer: 4.00 GB**

* **Motherboard**

**Answer: D035DX**

* **Storage**

**Answer: 406 GB**

Try doing the following.

Compare your computer specifications with your classmates

**Angelika's PC**

* **CPU**

Answer: Celeron Dual Core, Celeron Quad Core, Pentium Quad Core

* **RAM**

Answer: 2GB

* **Motherboard**
* Answer: NV3Dual-Core**rage**

Answer: Quad-Core you have similar specifications?

* None, we don’t have any similar specifications. I have a higher ram compare to her but when it comes to storage, my storage is lower compare to my classmate.

In your opinion, what do you think is the reason for the similarities and differences?

* I think it is because we don’t have the same brand of laptop and also my laptop is released

in 2015 and my classmate was in 2016.

**Activity 2**

As of today, Windows Operating Systems (OS) is the most common OS that operates on most computers in the Philippines. For that reason, the presented activity is based on the said OS.

Questions:

Now, it is your turn to perform the same task with your computer and app of choice. Explore your answer in a narrative format.

What have you noticed from the specifications?

* It is fairly good because my laptop had met its hardware requirements.

How much do you need?

* I think that I am just good enough with my laptop specifications because it had reached the high end requirements.

What type of user are you?

* I am a type of user that is looking for a computer's performance especially the storage of it.

**EXERCISE 1**

With your current computer specifications, try running more than one or three applications at the same time.

In the given situation, analyze the following and provide an answer:

Did the applications run?

* Yes, it run but it is really slow. It took 30 seconds for them to run because it keeps on lagging. Also my laptop have been overused because of my brother.

If it did, add two, three, or more applications that you will most likely use simultaneously.

If you managed to run more than five or seven, how was the experience?

* It took a minute just for them to run. It really stopped because there are too many applications that is opened

Is it giving you the satisfaction and productivity that you need?

* To be honest, my laptop might have 4gb ram and a 406 gb storage but it still keeps on lagging and it is really slow.

If running more than the given number of apps is not your task, and you are satisfied with the performance. You probably have the right specification for your needs.

If you do need to use more than the given number of apps at the same time and you seem to be having trouble. You need an upgrade.

In case most of these situations made you realize that thing does not go your way, then it means that you might not have enough computing resources.

What will you do?

* Maybe I will upgrade my computer to much better.

Do you have enough credits to acquire your needs?

* Maybe in the future but for now, I do not have enough money to buy my needs because I am just a student.

What if this happened in a working environment?

NOTE: Your answers may all be different, but this is mainly asked to see how you will come up with a potential solution.

As an IT in-charge, there are certain situations where some of the users are not satisfied. What will you do?

* I will ask them what specific specifications do they want or need so I can see if I can satisfy their needs.

You are in need to accomplish a project that requires heavy processing, and your computer does not meet the requirements to run all at the same time. What will be your next option?

* Maybe I can buy a computer that will meet the requirement of my job so that I can finish a project that requires heavy-processing without a sweat. I

FINAL ACTIVITY:

Try building your own PC!

Set your budget, need, and evaluation.

Provide your answers to the sample table. You may change the format as needed to help with your presentation.

You may use the PC parts picker, but you must identify where to purchase and the availability of the components. https://pcpartpicker.com/

Now, this time. Build a PC for your classmate based on their budget, needs, and other requirements.

Compare both of your builds and analyze the similarities and differences.

**MY PC**

**BUDGET: 90-95K**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **COMPONENTS** | **COST** | | **BRAND** | | **PURCHASE LINK** | |
| **CPU** | 14,063 | | Intel Core i7-9700K 3.6 GHz 8- core Processor | | https://pcpartpicker.com/product/WtyV3C/intel-core-i7-9700k-36ghz-8-core-processor-bx80684i79700k | |
| **CPU COOLER** | 3,685 | | Cooler Master MasterLiquid ML240L RGB 66.7 CFM Liquid CPU Cooler | | https://pcpartpicker.com/product/RcdFf7/cooler-master-masterliquid-ml240l-rgb-667-cfm-liquid-cpu-cooler-mlw-d24m-a20pc-r1 | |
| **MOTHERBOARD** | 9,116 | | MSI MPG Z390 GAMING EDGE AC ATX LGA1151 Motherboard | | https://pcpartpicker.com/product/t8qhP6/msi-mpg-z390-gaming-edge-ac-atx-lga1151-motherboard-mpg-z390-gaming-edge-ac | |
| **MEMORY** | 4,752 | | G.Skill Aegis 32 GB (2 x 16 GB) DDR4-3000 CL16 Memory | | https://pcpartpicker.com/product/XCDJ7P/gskill-aegis-32gb-2-x-16gb-ddr4-3000-memory-f4-3000c16d-32gisb | |
| **STORAGE** | 5,901 | | Crucial P1 1 TB M.2-2280 NVME Solid State Drive | | https://pcpartpicker.com/product/pxKcCJ/crucial-p1-1tb-m2-2280-solid-state-drive-ct1000p1ssd8 | |
| **STORAGE** | 2,424 | | Western Digital Blue 2 TB 3.5" 5400RPM Internal Hard Drive | | https://pcpartpicker.com/product/Jd8j4D/western-digital-blue-2-tb-35-5400rpm-internal-hard-drive-wd20ezaz | |
| **VIDEO CARD** | 12,124 | | Gigabyte GeForce GTX 1660 SUPER 6 GB GAMING OC Video Card | | https://pcpartpicker.com/product/DdbCmG/gigabyte-geforce-gtx-1660-super-6-gb-gaming-oc-video-card-gv-n166sgaming-oc-6gd | |
| **CASE** | 2,909 | | Phanteks Eclipse P300A Mesh ATX Mid Tower Case | | https://pcpartpicker.com/product/crqBD3/phanteks-eclipse-p300a-mesh-atx-mid-tower-case-ph-ec300atg\_bk01 | |
| **POWER SUPPLY** | 7,031 | | Corsair RMx (2018) 850 W 80+ Gold Certified Fully Modular ATX Power Supply | | https://pcpartpicker.com/product/VgQG3C/corsair-rmx-2018-850w-80-gold-certified-fully-modular-atx-power-supply-cp-9020180-na | |
| **MONITOR** | 9,553 | | Sceptre C248B-144RN 24.0" 1920x1080 144 Hz Monitor | | https://pcpartpicker.com/product/MqL48d/sceptre-c248b-144rn-240-1920x1080-144-hz-monitor-c248b-144rn | |
| **KEYBOARD** | 3,394 | | Kingston HyperX Alloy FPS Pro Wired Gaming Keyboard | | https://pcpartpicker.com/product/K9F48d/kingston-hyperx-alloy-fps-pro-wired-gaming-keyboard-hx-kb4rd1-usr1 | |
| **MOUSE** | 2,375 | | Logitech G502 HERO Wired Optical Mouse | | https://pcpartpicker.com/product/7RbwrH/logitech-g502-hero-wired-optical-mouse-910-005469 | |
| **HEADPHONES** | 3,879 | | Corsair VOID RGB ELITE 7.1 Channel Headset | | https://pcpartpicker.com/product/wW4BD3/corsair-void-rgb-elite-71-channel-headset-ca-9011201-na | |
| **SPEAKERS** | 1,939 | | Logitech Z313 25 W 2.1 Channel Speakers | | https://pcpartpicker.com/product/PzJwrH/logitech-speakers-980000382 | |
| **EXTERNAL STORAGE** | 7,041 | | Western Digital ELEMENTS 8 TB External Hard Drive | | https://pcpartpicker.com/product/YpJtt6/western-digital-elements-8tb-external-hard-drive-wdbwlg0080hbk-nesn | |
| **WEBCAM** | | 3,879 | | Logitech C920 HD Pro Webcam | | https://pcpartpicker.com/product/Wd2bt6/logitech-c920-hd-pro-webcam-960-000764 |

**TOTAL: 94,065**

Now, this time. Build a PC for your classmate based on their budget, needs, and other requirements.

**BUDGET: 50-55K**

|  |  |  |  |
| --- | --- | --- | --- |
| **COMPONENTS** | **COST** | **BRAND** | **PURCHASE LINK** |
| **CPU** | 8,728 | Intel Core i5-10400 2.9 GHz 6-Core Processor | https://pcpartpicker.com/product/X8snTW/intel-core-i5-10400-29-ghz-6-core-processor-bx8070110400 |
| **CPU COOLER** | 1,619 | Cooler Master Hyper 212 EVO 82.9 CFM Sleeve Bearing CPU Cooler | https://pcpartpicker.com/product/hmtCmG/cooler-master-cpu-cooler-rr212e20pkr2 |
| **MOTHERBOARD** | 3,345 | ASRock H410M-HDV/M.2 Micro ATX LGA1200 Motherboard | https://pcpartpicker.com/product/ssgQzy/asrock-h410m-hdvm2-micro-atx-lga1200-motherboard-h410m-hdvm2 |
| **MEMORY** | 4,170 | Corsair Vengeance RGB Pro 16 GB (2 x 8 GB) DDR4-3200 CL16 Memory | https://pcpartpicker.com/product/QDhKHx/corsair-vengeance-rgb-pro-16gb-2-x-8gb-ddr4-3200-memory-cmw16gx4m2c3200c16 |
| **STORAGE** | 2,699 | Seagate Barracuda Compute 2 TB 3.5" 7200RPM Internal Hard Drive | https://pcpartpicker.com/product/mwrYcf/seagate-barracuda-computer-2-tb-35-7200rpm-internal-hard-drive-st2000dm008 |
| **VIDEO CARD** | 7,031 | MSI GeForce GTX 1050 Ti 4 GB Video Card | https://pcpartpicker.com/product/x7s8TW/msi-geforce-gtx-1050-ti-4gb-video-card-gtx-1050-ti-4gt-oc |
| **CASE** | 3,393 | NZXT H510 ATX Mid Tower Case | https://pcpartpicker.com/product/6Cyqqs/nzxt-h510-atx-mid-tower-case-ca-h510b-w1 |
| **POWER SUPPLY** | 2,327 | Thermaltake Smart 500 W 80+ Certified ATX Power Supply | https://pcpartpicker.com/product/Wbhj4D/thermaltake-smart-500w-80-certified-atx-power-supply-ps-spd-0500npcwus-w |
| **OPERATING SYSTEM** | 5,275 | Microsoft Windows 10 Home OEM 64-bit | https://pcpartpicker.com/product/wtgPxr/microsoft-os-kw900140 |
| **MONITOR** | 5,333 | LG 24MK400H-B 24.0" 1920x1080 75 Hz Monitor | https://pcpartpicker.com/product/bVzkcf/lg-24mk400h-b-240-1920x1080-75-hz-monitor-24mk400h-b |
| **KEYBOARD** | 1565 | Redragon K552 Wired Gaming Keyboard | https://pcpartpicker.com/product/VhkwrH/redragon-keyboard-k552 |
| **MOUSE** | 1,454 | SteelSeries Rival 3 Wired Optical Mouse | https://pcpartpicker.com/product/W6K2FT/steelseries-rival-3-wired-optical-mouse-62513 |
| **HEADPHONES** | 2,424 | SteelSeries Arctis 1 Headset | https://pcpartpicker.com/product/rVgQzy/steelseries-arctis-1-headset-61427 |
| **SPEAKERS** | 1,211 | Logitech Z200 0 nW 2.0 Channel Speakers | https://pcpartpicker.com/product/bv38TW/logitech-speakers-980000800 |
| **WEBCAM** | 3,879 | Logitech C920 HD Pro Webcam | https://pcpartpicker.com/product/Wd2bt6/logitech-c920-hd-pro-webcam-960-000764 |

**TOTAL: 54,454**

Compare both of your builds and analyze the similarities and differences.

**Answer: The price of my pc parts are much more expensive compare to her. The one I bild is for and school and gaming purposes.**

**BUILD THEM A PC!**

* **BUDGET: 20-25K**

|  |  |  |  |
| --- | --- | --- | --- |
| **COMPONENTS** | **COST** | **BRAND** | **PURCHASE LINK** |
| **CPU** | **7,228** | AMD Ryzen 5 2600 3.4 GHz 6-Core Processor | https://pcpartpicker.com/product/jLF48d/amd-ryzen-5-2600-34ghz-6-core-processor-yd2600bbafbox |
| **MOTHERBOARD** | **3,637** | Gigabyte B450M DS3H Micro ATX AM4 Motherboard | https://pcpartpicker.com/product/hpRzK8/gigabyte-b450m-ds3h-micro-atx-am4-motherboard-b450m-ds3h |
| **MEMORY** | **3,346** | Corsair Vengeance LPX 16 GB (2 x 8 GB) DDR4-3200 CL16 Memory | https://pcpartpicker.com/product/p6RFf7/corsair-memory-cmk16gx4m2b3200c16 |
| **STORAGE** | **2,667** | Seagate Barracuda Compute 2 TB 3.5" 7200RPM Internal Hard Drive | https://pcpartpicker.com/product/mwrYcf/seagate-barracuda-computer-2-tb-35-7200rpm-internal-hard-drive-st2000dm008 |
| **CASE** | **2,158** | Cooler Master MasterBox Q300L MicroATX Mini Tower Case | https://pcpartpicker.com/product/rnGxFT/cooler-master-masterbox-q300l-microatx-mini-tower-case-mcb-q300l-kann-s00 |
| **POWER SUPPLY** | **2,907** | EVGA BQ 500 W 80+ Bronze Certified Semi-modular ATX Power Supply | https://pcpartpicker.com/product/8P7CmG/evga-bq-500w-80-bronze-certified-semi-modular-atx-power-supply-110-bq-0500-k1 |

**21,943**

* **BUDGET: 45-50K**

|  |  |  |  |
| --- | --- | --- | --- |
| **COMPONENTS** | **COST** | **BRAND** | **PURCHASE LINK** |
| **CPU** | **9,700** | AMD Ryzen 5 3600 3.6 GHz 6-Core Processor | https://pcpartpicker.com/product/9nm323/amd-ryzen-5-3600-36-thz-6-core-processor-100-100000031box |
| **MOTHERBOARD** | **9,136** | Asus TUF GAMING X570-PLUS (WI-FI) ATX AM4 Motherboard | https://pcpartpicker.com/product/dmGnTW/asus-tuf-gaming-x570-plus-wi-fi-atx-am4-motherboard-tuf-gaming-x570-plus-wi-fi |
| **MEMORY** | **3,345** | Corsair Vengeance LPX 16 GB (2 x 8 GB) DDR4-3200 CL16 Memory | https://pcpartpicker.com/product/p6RFf7/corsair-memory-cmk16gx4m2b3200c16 |
| **STORAGE** | **2,667** | Seagate Barracuda Compute 2 TB 3.5" 7200RPM Internal Hard Drive | https://pcpartpicker.com/product/mwrYcf/seagate-barracuda-computer-2-tb-35-7200rpm-internal-hard-drive-st2000dm008 |
| **CASE** | **3,394** | NZXT H510 ATX Mid Tower Case | https://pcpartpicker.com/product/6Cyqqs/nzxt-h510-atx-mid-tower-case-ca-h510b-w1 |
| **POWER SUPPLY** | **7,042** | Corsair RM (2019) 750 W 80+ Gold Certified Fully Modular ATX Power Supply | https://pcpartpicker.com/product/6Y66Mp/corsair-rm-2019-750-w-80-gold-certified-fully-modular-atx-power-supply-cp-9020195-na |
| **VIDEO CARD** | **9,215** | XFX Radeon RX 580 8 GB GTS XXX ED Video Card | https://pcpartpicker.com/product/MsWfrH/xfx-radeon-rx-580-8gb-gts-xxx-ed-video-card-rx-580p8dfd6 |
| **MONITOR** | **5,335** | LG 24MK400H-B 24.0" 1920x1080 75 Hz Monitor | https://pcpartpicker.com/product/bVzkcf/lg-24mk400h-b-240-1920x1080-75-hz-monitor-24mk400h-b |

**TOTAL: 49,834**

* **BUDGET: 50-60K**

|  |  |  |  |
| --- | --- | --- | --- |
| **COMPONENTS** | **COST** | **BRAND** | **PURCHASE LINK** |
| **CPU** | 9,700 | AMD Ryzen 5 3600 3.6 GHz 6-Core Processor | https://pcpartpicker.com/product/9nm323/amd-ryzen-5-3600-36-thz-6-core-processor-100-100000031box |
| **MOTHERBOARD** | 9,116 | MSI MPG Z390 GAMING EDGE AC ATX LGA1151 Motherboard | https://pcpartpicker.com/product/t8qhP6/msi-mpg-z390-gaming-edge-ac-atx-lga1151-motherboard-mpg-z390-gaming-edge-ac |
| **MEMORY** | 4,752 | G.Skill Aegis 32 GB (2 x 16 GB) DDR4-3000 CL16 Memory | https://pcpartpicker.com/product/XCDJ7P/gskill-aegis-32gb-2-x-16gb-ddr4-3000-memory-f4-3000c16d-32gisb |
| **STORAGE** | 2,424 | Western Digital Blue 2 TB 3.5" 5400RPM Internal Hard Drive | https://pcpartpicker.com/product/Jd8j4D/western-digital-blue-2-tb-35-5400rpm-internal-hard-drive-wd20ezaz |
| **CASE** | 2,909 | Phanteks Eclipse P300A Mesh ATX Mid Tower Case | https://pcpartpicker.com/product/crqBD3/phanteks-eclipse-p300a-mesh-atx-mid-tower-case-ph-ec300atg\_bk01 |
| **POWER SUPPLY** | 7,031 | Corsair RMx (2018) 850 W 80+ Gold Certified Fully Modular ATX Power Supply | https://pcpartpicker.com/product/VgQG3C/corsair-rmx-2018-850w-80-gold-certified-fully-modular-atx-power-supply-cp-9020180-na |
| **MONITOR** | 9,553 | Sceptre C248B-144RN 24.0" 1920x1080 144 Hz Monitor | https://pcpartpicker.com/product/MqL48d/sceptre-c248b-144rn-240-1920x1080-144-hz-monitor-c248b-144rn |
| **KEYBOARD** | 3,394 | Kingston HyperX Alloy FPS Pro Wired Gaming Keyboard | https://pcpartpicker.com/product/K9F48d/kingston-hyperx-alloy-fps-pro-wired-gaming-keyboard-hx-kb4rd1-usr1 |
| **MOUSE** | 2,375 | Logitech G502 HERO Wired Optical Mouse | https://pcpartpicker.com/product/7RbwrH/logitech-g502-hero-wired-optical-mouse-910-005469 |
| **SPEAKERS** | 1,939 | Logitech Z313 25 W 2.1 Channel Speakers | https://pcpartpicker.com/product/PzJwrH/logitech-speakers-980000382 |
| **WEBCAM** | 3,879 | Logitech C920 HD Pro Webcam | https://pcpartpicker.com/product/Wd2bt6/logitech-c920-hd-pro-webcam-960-000764 |

**TOTAL: 57,072**