

Assignment

Question 1:

Specification	What each specification means..	
Display	Outputs the information in visual form	
Processor (CPU)	Cores	If we have more than one core, we can divide one task into several parts and let each core work on one part of the task. Thus, having more cores means that we can speed up execution
	Clock speed / CPU frequency	This indicates the number of cycles a CPU performs per second. The CPU can perform more quickly with a higher number of cycles.
Random Access Memory (RAM)	Provides the device with the memory it needs to run multiple applications at once	
Cache Memory	Data and instructions that are frequently requested are stored in cache memory so that the CPU can access them without delay when needed	
Operating System (OS)	The primary program (system software) that manages all of a computer's hardware and other software	
Battery	The source of electric power which allows us to use the device as long as it is charged	
Secondary Storage	This is where we store all our files such as videos, images and documents which are non-volatile	

Device Name	Display	Processor	RAM	Cache Memory	Operating System	Battery	Secondary Storage	As a mobile device..
Apple iPad 10.2'' (9 th generation)	Size: 10.2 inches Resolution: 2160 × 1620 pixels	<ul style="list-style-type: none"> A13 Bionic chip <p>No of cores: 6 cores</p> <p>Types of cores: 2x2.65 GHz Lightning cores + 4x1.8 GHz Thunder</p> <p>Clock speed: 2650 MHz</p>	Size: 3GB Type: LPDDR4X SDRAM	L1 128 KB + 128 KB L2 8192 KB	iPad OS 15	Li-Ion, non-removable 8557 mAh (32.4 Wh)	Internal: 64 GB/ 256GB Does not have an internal memory card slot	<p>This device is lightweight and compact, which makes it easy to carry around and use for most of our tasks at any time.</p> <p>Also, the A13 Bionic chip is made to be energy-efficient, which makes us do our tasks much more effectively.</p>

Apple iPad Pro 11" (2022)	<p>Size: 11 inches</p> <p>Resolution: 2388 × 1668 pixels</p>	<ul style="list-style-type: none"> Apple M2 <p>No of cores: 8 cores</p> <p>Types of cores: Four high-performance "Avalanche" cores + four energy-efficient "Blizzard" cores</p> <p>Clock speed: 3.50 GHz</p>	<p>Size: 8GB/16GB</p> <p>Type: LPDDR4X</p>	<ul style="list-style-type: none"> High performance cores: <ul style="list-style-type: none"> ★ L1 192 KB instruction cache + 128 KB data cache, L2 16 MB Energy-efficient cores: <ul style="list-style-type: none"> L1 128 KB instruction cache + 64 KB data cache 	iPadOS 16.1	Li-Po, 7538 mAh (28.65 Wh) non-removable	<p>Internal: 128 GB/256 GB/512 GB/1024 GB/2048 GB</p> <p>Does not have an internal memory card slot</p>	
Microsoft Surface Pro 9								