



## Tutorial No. 1

1. CPU is also often called the brain of computer.
2. Define a microprocessor. It is a component that executes the instructions responsible for the computer's processing
3. Define a motherboard. An electrical circuit on which most of the computer parts are installed
4. The different parts of the CPU are CU, ALU and registers. cache
5. RAM and ROM are the main memory.
6. What is the purpose of the main memory? is execution of any program to process
7. List the main functions of the CPU. the CPU or central processing unit is the both the heart and brains of every computer
8. ALU consists of the arithmetic unit and Logic unit.
9. What are the functions of the ALU? the ALU performs simple addition, subtraction, multiplication, division, and logic operations
10. Ram is also called the working memory of the CPU.  
register may hold an instruction, a storage address, or any kind of data (such as a bit sequence or individual characters). Some instructions specify registers as part of the instruction
11. Why are Registers used in the CPU?
12. Define word size.
13. “This is a 64-bit processor”. Explain its meaning. 64-bit refers to the number of bits that can be processed
14. The size of the register is also the \_\_\_\_\_ size. The size of a register may be 8, 16, 32 or 64 bits
15. Which is faster—a 32-bit processor or a 64-bit processor? 64-bit processor  
Programs are broken down into sequences of alphabets into simple instructions such as adding two numbers or copying a value from one location to another.
16. What are the functions of the control unit?
17. Explain the need of the cache memory? Fully store the program and all its features to facilitate access to information
18. The cache memory is placed between the RAM and the CPU.  
1- High-speed circuitry to provide extremely fast access to data.  
2- Small amount (usually Megabytes) to store data, temporarily, recently used by the CPU.  
3- Contents are lost when power is turned off (volatile)
19. There are three levels of cache memory.
20. State three important features of the cache memory.
21. What is the purpose of RAM? 1- Save the program with all its tools  
2- speed in dealing  
3- Not keeping the memory and wiping it when the device is turned off
22. List the components of computer hardware.  
SPU...  
MOTHERBOARD  
POWER SUPPLY  
FAN  
HARD DRIVE  
SSD  
RAM  
Graphics card



