**National University of Modern Languages**

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**Assignment#01**

**Roll # 2340**

**Class: BSCS 5B Morning**

**Subject: COAL**

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**Hierarchical Diagram:**

**COMPUTER:** It is a complex hierarchical system that has three major components; Processor, Memory & I/O.

* **CPU:** It processes all instructions received by software running on the PC and by other hardware components, and acts as a powerful calculator.
* **RAM:** It is the super-fast and stores program’s instructions & data at runtime.
* **I/O:** Such devices move data between the computer and its external environment.
* **System Bus:** Provides Communication among CPU, RAM & I/O**.**

**CPU:**

* **Control Unit:** It executes instructions & controls the operations of CPU & the computer.
* **ALU:** It performs processing on data.
* **Register:** They are internal storage of processor. They store one operand of each.
* **Cache:** It is a smaller and faster memory created on the chip.
* **Internal Bus:** It enables the communication between internal components, such as video card & memory.