**name:omnia shehab**

**section:2**

* **List the access method on Memory?**

1. **Sequential access**
2. **Direct access**
3. **Random access**
4. **Associtative**

* **Write notes about “Word” on Memory?**

**Word the “natural” unit of organization of memory . the size of a word is typically equal to the number of bits used to represent an integer and to the instruction length . unfortunately there are many exceptions , the cray 90 has a 64-bit word length but used a 46-bit integer representation**

* **Write notes about Memory hierarchy?**

**why we use Memory hierarchy!**

**We use it to get answers for 3 questions**

* **How much?**
* **How fast?**
* **How cost?**

**So we decided to make Memory hierarchy to be easy to get our needs. So we find in the top of Memory hierarchy**

**1.in board memory**

**that contains :**

* **Registers .**
* **Cache .**
* **Main memory.**

**2. Out board memory**

* **Magnetic disk**

**3. offline storage**

* **Magnetic tape**

**So we get that :**

* **Decreasing cost per bit .**
* **Increasing capacity .**
* **Increasing access time .**
* **Decreasing frequency of access of the memory by processor .**