**Chapter 6: Multilevel Control Breaks**

**Ref book: Programming Practices & Techniques (6th edition)**

1. **What do you mean by multilevel control?** (page-107)

**Ans:** Refers to processing that produces more than one level of sub total, i.e., subtotals for grouping of records on more than one field.

1. **What do you mean by group indication?** (page-110)

**Ans:** The printing in a report of only those control field values that have changed since they were last printed

1. **What do you mean by group printed?** (page-110)

**Ans:** Refers to a report in which a line of data summarizes information from more than one record; a report without detail lines.

1. **What do you mean by HIPO?** (page-123)

**Ans:** HIPO stands for - **Hierarchical input-process-output.**

-A technique for planning and documenting structured programs that utilizes

a hierarchy chart, a description of the input & output for each module,and a

Description in pseudo code of the processing steps for each module.

1. **What do you mean by intermediate control field?** (page-108)

**Ans:** A control field, other than the major or minor control field, present only when there are tree or more control field.

1. **What do you mean by major & minor control field?** (page-108)

**Ans:**

**Major control field**

- The most significant field in the ordering of a file; the one that changes

least Frequently.

**Minor control field**

- The least significant field in the ordering of a file; the one that changes

frequently.

1. **What is stand for HIPO?** (page-123)

**Ans:** HIPO stands for - **Hierarchical input-process-output.**

1. **Write the advantage of HIPO?** (page-124)

**Ans:**

**-** HIPO chart provides more information.

**-** The input and output for each module are clearly identified so that we

can easily determine what modules call the module being examined.

1. **Write the disadvantage of HIPO?** (page-124)

**Ans:** The main disadvantages of HIPO is that

**-** the documentation for a program gets to be rate bulky: their is a

page for each module regardless of the actual size of the module.

- HIPO charts are not as widely used as structured charts and

pseudo code, but they are a required form of documentation in some

computer installation.