As the number of pymbols appearing in a program vary to a great extent, the pymbol table should be able to grow as pymbols are added to it.

my It must puppert duplicate entries. In most of programming harguages, a variable at an ineq resting level can have the pame name as a variable at an outer level.

Inspite of having the pame name as a variable at an outer nesting herel, a diplicat pymbol table entry is required for each of these variables as these are different variables. The peopley onless of the language determines which of these variables are active at a given time.

My The pymbol table is the most important and most complex data phontone in the compiler. Therefore, the underlying data phontone and its support functions must be organized in land a fastion that possesse other than the compiler visites can maintain them if required.

## Symbol Table Organization (or Symbol - Table entries):

Symbol table contains an entry for each name in the source program. We can implement each entry as a second consisting of a sequence of consecutive words of memory. The associated information saved about a name depends on the usage of that name so the format of these entries cannot be unique. To make it uniform, we can more some of the information about a name outside the table entry and store a pointer to this information in the record.

P. T. O. ]