

Government Engineering College Thrissur

System Software Lab

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Symbol Table - Hashing

AIM

Implement a symbol table with suitable hashing

THEORY

A symbol table may serve the following purposes depending upon the language in hand:

- To store the names of all entities in a structured form at one place.
- To verify if a variable has been declared.
- To implement type checking, by verifying assignments and expressions in the source code are semantically correct.
- To determine the scope of a name (scope resolution).

A symbol table is simply a table which can be either linear or a hash table. It maintains an entry for each name in the following format:

```
<symbol name, type, attribute>
```

RESULT

A symbol table with suitable hashing was implemented with successful output.

Output Screenshots

Terminal Output: