- 1. Lookup: Imagine you have a big list of names. When you're given a name, you want to quickly check if it's on that list or not. That's what lookup does. It tells you whether a given name is already in the list or not.
- 2. Insert: If you have a new name that's not on the list, you need a way to add it. Inserting a name means putting it onto the list.
- 3. Access: Once a name is on the list, there's usually more information associated with it, like what type of thing it represents (like a variable or a function), or where it's used in the program. Access allows you to get to that extra information when you have the name.
- 4. Modify: Sometimes, you might need to change or add more information about a name that's already on the list. Modifying lets you do that. For example, you might want to add the datatype of a variable.
- 5. Delete: If a name is no longer needed or if it's causing conflicts, you might want to remove it from the list. Deleting allows you to take names off the list.

## Related posts:

- 1. What are the types of passes in compiler?
- 2. Discuss the role of compiler writing tools. Describe various compiler writing tools.
- 3. What do you mean by regular expression? Write the formal recursive definition of a regular expression.
- 4. How does finite automata useful for lexical analysis?
- 5. Explain the implementation of lexical analyzer.
- 6. Write short notes on lexical analyzer generator.
- 7. Explain the automatic generation of lexical analyzer.
- 8. Explain the term token, lexeme and pattern.
- 9. What are the various LEX actions that are used in LEX programming?

- 10. Describe grammar.
- 11. Explain formal grammar and its application to syntax analyzer.
- 12. Define parse tree. What are the conditions for constructing a parse tree from a CFG?
- 13. Describe the capabilities of CFG.
- 14. What is parser? Write the role of parser. What are the most popular parsing techniques? OR Explain about basic parsing techniques. What is top-down parsing? Explain in detail.
- 15. What are the common conflicts that can be encountered in shift-reduce parser?
- 16. Differentiate between top-down and bottom-up parser. Under which conditions predictive parsing can be constructed for a grammar?
- 17. Differentiate between recursive descent parsing and predictive parsing.
- 18. What is the difference between S-attributed and L-attributed definitions?
- 19. What is intermediate code generation and discuss benefits of intermediate code?
- 20. Define parse tree. Why parse tree construction is only possible for CFG?
- 21. What are the symbol table requirements? What are the demerits in the uniform structure of symbol table?