LEXER ANALYZER

Q5: Challenges faced during this project?

Answer:

First, we have to clear the concept of Semantic and lexical analyses. It gives many errors due to our own concepts was not clear at the beginning but later we keep on hard working take help from google then resolved error.

Building an efficient lexer to tokenize the input source code is a challenge for us. Handling complex language constructs, identifying keywords, and dealing with special characters was very tricky.

Ensuring that the grammar is unambiguous and can be parsed accurately was very crucial.

Choosing the right parsing technique, whether it's top-down or bottom-up parsing, was challenging. Implementing a parser that can handle the grammar rules effectively was a key part of the project.

Integrating the lexical and semantic analysis components with a Windows Forms application may require careful design to ensure responsiveness and a smooth user experience.

Debugging issues in the parsing and analysis phases was challenging.

user-friendly interface in a Windows Forms application are important but can be overlooked in the midst of technical challenges.