**DEPENDENCIES REQUIRED BEFORE RUNNING CODE : -**

* **Install Required Tools:**

1. Ensure you have installed the necessary tools for lexing, parsing, and code generation.

* **Testing Framework:**

1. Use testing frameworks to ensure the correctness of your interpreter.

* **Package Management:**

1. Use the appropriate package manager for the interpreter to install dependencies.

* **Dependency Files:**

1. Make use of the dependency files in the following language.

**CHALLENGES FACED : -**

* **Parsing and Lexing :**

1. Implementing a lexer and parser for the language grammar,mainly when dealing with the complex syntax and parsing ambiguities.

* **Memory Management:**

1. Designing efficient data structures for the Abstract Syntax Tree (AST).

* **Exception Handling :**

1. This provides error messages to developers in debugging.

* **Integration with Java Ecosystem:**

1. Including Java libraries and frameworks to the file.

* **Dynamic Typing:**

1. Managing and enforcing type constraints at runtime.

* **Error Handling:**

1. Error reporting system to help users identify and fix issues in their code.

**LEARNING :-**

* **Syntax Knowledge Gain:**

1. Gain a solid understanding of the programming language's syntax and structure.

* **Interpreter Understanding:**

1. Learning how interpreters work and how they execute code.

* **Runtime Behaviour:**

1. Understanding runtime behaviour of programs running through an interpreter.

* **Debugging Techniques:**

1. Improving skills to identify and fix errors.

* **Error Handling:**

1. To Learn how to handle and manage different types of errors that may occur during interpretation.

* **Environment Setup:**

1. Developing the skills to set up and configure development environments, including installing interpreters and dependencies.

* **Version Control:**

1. Collaborating with others using version control systems like Git, allowing multiple people to work on the same codebase.

**CONTRIBUTION-**

**Basic code structure- Satya**

**Controle Statements, variable declaration, Print statements – Raghuram, Tilak**

**BOADMAS, While loop, Comments – Sai Maneesh, Vineeth**