❤■ LoveLang Programming Language ❤■

Hinglish-based Fun Interpreter

1. Introduction

LoveLang is an experimental toy programming language written in Python.
It is inspired by BhaiLang and uses Hinglish keywords with a fun,
light-hearted theme around love and friendship.

- Open Source
- Hinglish Keywords
- Educational and Fun

2. Installation & Usage

1. Clone or download the LoveLang source.
2. Run LoveLang with Python 3:

```
python lovelang.py program.pyr
```

3. Write your LoveLang code in .pyr files.

Example:

```
bolo("Hello LoveLang ❤■");
```

3. Keywords & Syntax

Keywords (Hinglish Style):

- suno → input
- bolo → print
- agartum → if
- nehito → else
- jabtak → while
- thodaroko → continue
- miltehe → break
- trust → pass
- dilse → function definition
- lautjao → return
- lovetrue → true
- lovefalse → false

4. Grammar Cheat Sheet

```
Program   ::= { Statement }
Statement ::= Assign | Print | If | While | Func | Return | Break | Continue
Assign    ::= ID '=' Expression ';'
Print     ::= 'bolo' '(' [Expression {',' Expression}] ')' ';'
If        ::= 'agartum' '(' Expression ')' Block ['nehito' Block]
While     ::= 'jabtak' '(' Expression ')' Block
Func      ::= 'dilse' ID '(' [ID {',' ID}] ')' Block
Return    ::= 'lautjao' Expression ';'
Break     ::= 'miltehe' ';'
Continue  ::= 'thodaroko' ';'
```

5. Examples

Hello World:

```
bolo("Hello doston ❤■");
```

If / Else:

```
x = 10;
agartum (x > 5) {
bolo("x bada hai");
} nehito {
bolo("x chhota hai");
}
```

Loop with Break/Continue:

```
i = 0;
jabtak (i < 5) {
i = i + 1;
agartum (i == 3) { thodaroko; }
bolo("Count:", i);
agartum (i == 4) { miltehe; }
}
```

Function:

```
dilse add(a,b) {
lautjao a + b;
}
bolo("2+3=", add(2,3));
```

6. Error Handling

Syntax Errors:
- Show line and column with snippet and caret.

Runtime Errors:
- Undefined variable
- Division by zero
- Argument count mismatch
- Function not found

Example:

```
bolo(x);   # RuntimeError: Undefined variable 'x'
```

7. Future Extensions

- Add for-loops (pyaarloop?)
- String functions (length, substring)
- Lists/arrays (list of lovers ❤■)
- File I/O
- REPL (interactive prompt)