Experiment 2.3

AIM

To write a YACC program to identify valid variable names

ALGORITHM

1. Start

2. Create a lex file with following lexical rules:

    1. Include y.tab.h generated by YACC program.

    2. If input starts with a letter followed by a combination of letters and digits:

        1. Copy value to yylval.

        2. Return token IDENTIFIER.

    3. If input is a newline character, return newline character.

    4. For any other string:

        1. Copy string to yylval.

        2. Return token INVALID.

3. Create YACC to parse input as follows:

    1. The input consists of multiple lines.

    2. Each line can be either:

    3. An identifier followed by a newline character. In this case, display "Valid".

    4. An invalid token followed by a newline character. In this case, display "Invalid".

    5. In user code section:

    6. Define error handling.

    7. Define main function to call yyparse().

4. Use lex command to generate C program.

5. Use yacc to create y.tab,h and y.tab.c

6. Compile and run y.tab.c along with lex program

7. Stop

RESULT

Successfully compiled and ran the YACC and LEX program.