TUẦN 3: PARSER

I. Kết quả chạy

```
| Parsing a call statement ... |
| 13-7:M2 (ALL |
| 13-7:M2 (ALL |
| 13-7:M3 (ALL |
| 13-7:M3 (ALL |
| 13-10:T (ALL |
| 13-10:T (ALL |
| 13-10:T (ALL |
| 14-10:T (ALL |
| 14-1
```

II. Bắt lỗi

1. ERM INVALIDCONSTANT "Invalid constant!"

2. ERM_INVALIDTYPE "Invalid type!"

```
• gioi@Giois-MacBook-Pro incompleted % ./parser ../test/example1.kpl
Parsing a Program ...
1-1:KW_PROGRAM
1-9:TK_IDENT(Example1)
1-7:SS_SENICOLON
Parsing a Block ...
2-1:KW_TYPE
2-6:TK_IDENT(a)
2-8:SS_EQ
2-10:Invalid type!
○ gioi@Giois-MacBook-Pro incompleted % □
```

3. ERM_INVALIDBASICTYPE "Invalid basic type!"

4. ERM_INVALIDPARAM "Invalid parameter!"

5. ERM INVALIDSTATEMENT "Invalid statement!"

6. ERM_INVALIDARGUMENTS "Invalid arguments!"

7. ERM_INVALIDCOMPARATOR "Invalid comparator!"

8. ERM_INVALIDTERM "Invalid term!"

ERM_INVALIDFACTOR "Invalid factor!"

```
Parsing a Block ...
2-1:KW VAR
2-5:TK IDENT(n)
2-7:SB COLON
2-9:KW_INTEGER
2-16:SB_SENICOLON
Parsing subtoutines ...
Parsing a function ...
4-1:KW_FUNCTION
4-10:TK_IDENT(F)
4-12:SB_LPAR
4-14:TK_IDENT(n)
4-16:SB_COLON
4-18:KW_INTEGER
4-25:SB_RPAR
4-27:SB_COLON
4-29:KW_INTEGER
4-36:SB_SENICOLON
4-99:KW_INTEGER
4-36:SB_SENICOLON
4-99:KW_INTEGER
4-36:SB_SENICOLON
4-90:KW_INTEGER
4-36:SB_SENICOLON
4-91:KW_INTEGER
4-36:SB_SENICOLON
4-91:KW_INTEGER
4-36:SB_SENICOLON
4-91:KW_INTEGER
4-36:SB_SENICOLON
4-91:KW_INTEGER
4-36:SB_SENICOLON
                                                                                                                                                                                                                                                                                                                                             Bai3 > test > ≡ example2.kpl
                                                                                                                                                                                                                                                                                                                                                                     Program Example2; (* Factorial *)
                                                                                                                                                                                                                                                                                                                                                                      Var n : Integer;
                                                                                                                                                                                                                                                                                                                                                                     Function F ( n : Integer) : Integer;
                                                                                                                                                                                                                                                                                                                                                                     Begin

★ If n = 0 Then F := 1 Else F := N *;
                                                                                                                                                                                                                                                                                                                                                                            End;
                                                                                                                                                                                                                                                                                                                                                                     Begin
                                                                                                                                                                                                                                                                                                                                                                            For n := 1 To 7 Do
                                                                                                                                                                                                                                                                                                                                                                                  Begin
Call WriteLn;
                                                                                                                                                                                                                                                                                                                                                                                          Call WriteI( F(i));
   Parsing a Block ....
Parsing subtoutines ....
Subtoutines parsed ....
5-3:KW_BEGIN
                                                                                                                                                                                                                                                                                                                                                                                          Break
                                                                                                                                                                                                                                                                                                                                                                                        CONTINUE
 5-3:KW_BEGIN
Parsing an if statement ...
6-5:KW_IF
Parsing an expression
6-8:TK_IDENT(n)
Expression parsed
6-10:SB_EQ
Parsing an expression
6-12:TK_NUMBER(0)
Expression parsed
6-14:KW_THEN
Parsing an assign statement .
                                                                                                                                                                                                                                                                                                                                                                     End. (* Factorial *)
  0-14:NW_INCN
Parsing an assign statement ....
6-19:TK_IDENT(F)
6-21:SB_ASSIGN
6-21:SB_ASSIGN
Parsing an expression
6-24:TK_NUMBER(1)
Expression parsed
Assign statement parsed ...
6-26:KW_ELSE
Parsing an assign statement ...
6-31:TK_IDENT(F)
6-33:SB_ASSIGN
Parsing an expression
6-36:TK_IDENT(N)
6-38:SB_TIMES
6-40:Invalid factor!
gioi@Giois-MacBook-Pro incompleted % [
```