

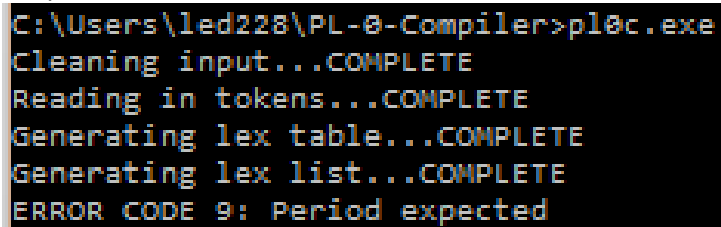
PL/O Errors ** These were done in Windows, to locate the Eustis command look at the readme.txt file**

1. Period Expected Error:

PL/O Code-

```
var x, y;  
  
begin  
  
x := y + 56;  
  
end
```

Output-



```
C:\Users\led228\PL-0-Compiler>pl0c.exe  
Cleaning input...COMPLETE  
Reading in tokens...COMPLETE  
Generating lex table...COMPLETE  
Generating lex list...COMPLETE  
ERROR CODE 9: Period expected
```

2. '=' Expected Error:

PL/O Code:

```
const beginningX 3; /*Syntax error: '=' expected. */  
  
var facRes, facParam;  
  
procedure Factorial  
var myFacParam;  
  
begin  
    if facParam > 0 then begin  
        myFacParam := facParam;  
        facParam := facParam*2/2 - 1*1;  
  
        call Factorial;  
  
        if myFacParam <> facParam +1 then /*This should never be taken */  
        begin  
            facParam:=0;  
        end;  
  
        facRes := facRes * (facParam+1);  
        facParam := myFacParam;  
    end  
    else  
        facRes := 1;  
end;
```

Output-

```
C:\Users\led228\PL-0-Compiler>pl0c.exe
Cleaning input...COMPLETE
Reading in tokens...COMPLETE
Generating lex table...COMPLETE
Generating lex list...COMPLETE
ERROR CODE 3: Identifier must be followed by =
```

3. Type Error:

PL/0 Code-

```
procedure A;
var a;
a := 2;

begin
    A := 4;
end.
```

Output-

```
C:\Users\led228\PL-0-Compiler>pl0c.exe
Cleaning input...COMPLETE
Reading in tokens...COMPLETE
Generating lex table...COMPLETE
Generating lex list...COMPLETE
ERROR CODE 12: Assignment to constant or procedure is not allowed
```

4. Undeclared Error:

PL/0 Code-

```
procedure A;
var a;
begin
    a:=4;
end;

begin
    a := 4;
end.
```

Output-

```
C:\Users\led228\PL-0-Compiler>pl0c.exe
Cleaning input...COMPLETE
Reading in tokens...COMPLETE
Generating lex table...COMPLETE
Generating lex list...COMPLETE
ERROR CODE 11: Undeclared identifier
```

5. Then Expected Error:

PL/0 Code-

```

begin
    x := 4;
    read w;

    if w > x
        w := w + 1;
    else
        w := x;

    write w;
end.

```

Output-

```

C:\Users\led228\PL-0-Compiler>pl0c.exe
Cleaning input...COMPLETE
Reading in tokens...COMPLETE
Generating lex table...COMPLETE
Generating lex list...COMPLETE
ERROR CODE 16: 'then' expected

```

6. ':= ' Missing After Identifier Error:

PL/0 Code-

```

var x, y;

begin
    x = y + 42;
end.

```

Output-

```

C:\Users\led228\PL-0-Compiler>pl0c.exe
Cleaning input...COMPLETE
Reading in tokens...COMPLETE
Generating lex table...COMPLETE
Generating lex list...COMPLETE
ERROR CODE 29: ':=' must follow identifier in statement

```

7. Identifier Expected After Write Error:

PL/0 Code-

```

var x, y;
/* This program computes the absolute value of the input. */
begin
    read x;
    if x<0 then
        y := 0-x
    else
        y := x;
    write ;
end.

```

Output-

```
C:\Users\led228\PL-0-Compiler>pl0c.exe
Cleaning input...COMPLETE
Reading in tokens...COMPLETE
Generating lex table...COMPLETE
Generating lex list...COMPLETE
ERROR CODE 28: Identifier expected after 'write'
```

8. Identifier Expected After Var Error:

PL/0 Code-

```
var x, ;
/* This program computes the absolute value of an integer using two subroutines. */

procedure Neg;
begin
    y := 0-x;
end;
procedure ABS;
var a;
begin
    a := x;
    if a<0 then
        call Neg
    else y := a;
end;

begin
    read x;
    call ABS;
    write y;
end.
```

Output-

```
C:\Users\led228\PL-0-Compiler>pl0c.exe
Cleaning input...COMPLETE
Reading in tokens...COMPLETE
Generating lex table...COMPLETE
Generating lex list...COMPLETE
ERROR CODE 26: Identifier expected after 'var'
```

9. Right Parenthesis Expected Error:

PL/0 Code-

```
const loopEnd = 0;
var i, n, s;
begin
```

```

    read n;
    s := n*(n+1/2;
    write s;
    s := 0;
    i := n;
    while i > loopEnd do
    begin
        s := s + i;
        i := i - 1;
    end;
    write s;
end.

```

Output-

```

C:\Users\led228\PL-0-Compiler>pl0c.exe
cleaning input...COMPLETE
Reading in tokens...COMPLETE
Generating lex table...COMPLETE
Generating lex list...COMPLETE
ERROR CODE 22: Right parenthesis missing

```

10. 'Do' Expected Error:

PL/0 Code-

```

/* This program outputs the i_th number in the fibonacci sequence */

```

```

var i, a, aprev, t;

begin
    read i;
    aprev := 0;
    a := 1;
    while i>1 /* Simulating a "for" loop */
    begin
        t := a;
        a := a + aprev;
        aprev := t;
        i := i - 1;
    end;
    write a;
end.

```

Output-

```
C:\Users\led228\PL-0-Compiler>pl0c.exe
Cleaning input...COMPLETE
Reading in tokens...COMPLETE
Generating lex table...COMPLETE
Generating lex list...COMPLETE
ERROR CODE 18: 'do' expected
```