The scanning algth:

Input: source.txt + tokens.txt

Output: PIF + ST(symbol table) + lexical errors (if any)

Source.txt:

Program test

Begin

Var a : integer;

b : integer;

c : string;

a := 1;

b := a + 2;

c := “A message: ”;

write(c);

End

**PIF:**

**ST(Symbol table) only ids + constants**

**TOKEN ST\_pos ST\_pos symbol**

**Program -1 0 test**

**Id 0 1 a**

**Begin -1 2 b**

**Var -1 3 c**

**Id 1 4 1**

**: -1 5 2**

**Integer -1 6 “A message”**

**; -1**

**Id 2**

**: -1**

**Integer -1**

**; -1**

**Id 3**

**: -1**

**String ;**

**Id 1**

**:= -1**

**Const 4**

**; -1**

**Id 2**

**:= -1**

**Id 1**

**+ -1**

**Const 5**

**; -1**

**Id 3**

**:= -1**

**Const 6**

**; -1**

**Write -1**

**( -1**

**Id 3**

**) -1**

**End -1**

**. -1**

**LEXICAL ERROR EXAMPLE:**

-Symbol not defined in alphabet “$”

\*wrong token/unclassified token\*

-id-uri gresite incepe cu & sau whatever

DE MODIF TEMA

-la int numarul 01

- string fara “

- char fara ‘ ex: a’