AIM-Scanner phase implementation in "C" language.

Valid operations:

- 1. x=p+q Concatenates the p with q and stores result in x
- 2. x=p-q Removes the last "q" symbols from p and stores answer back in x.
- 3. x=p<->q Replaces all occurrence of p variable with q variable in x string.
- 4. pos=x?p Find and return the first position in X where q string was found
- Variables can be of type: "string" or "char"
- Variables can be assigned value using "=" symbol.
- Variable names should start with "small case character" & can't contain integer.
- The maximum size of name can be 3.

Regular Expressions:

whitespace -->

```
[a-z A-Z]
letter
            -->
sletter
            -->
                  [a-z]
assop
            -->
            --> + | - | <-> | ?
relop
string
                  string
            -->
                  char
char
            -->
                  sletter(letter)?(letter)?
id
            -->
```

(space|tab|newline)*

Output Screenshot:

```
Enter Program : string str = p + q
< Keyword , string>
< ID , str >
< Assop , = >
< ID , p >
< Relop , + >
< ID , q >
```

```
Enter Program : +-?<->charstringvar
< Relop , + >
< Relop , - >
< Relop , ? >
< Relop , <-> >
< Keyword , char>
< Keyword , string>
< ID , var >
```

```
Enter Program : a ab ab1 abc abc1 A
< ID , a >
< ID , ab >
Invalid < ID , ab1 >
< ID , abc >
Invalid < ID , abc1 >
Invalid < ID , abc1 >
Invalid Token : A
```

```
Enter Program : 12abc
Invalid Token : 1
Invalid Token : 2
< ID , abc >
```