


Erik Ayavaca-Tirado
 12/16/18
 CSC 450
 SDD- Software Design Document
 Scanner Project

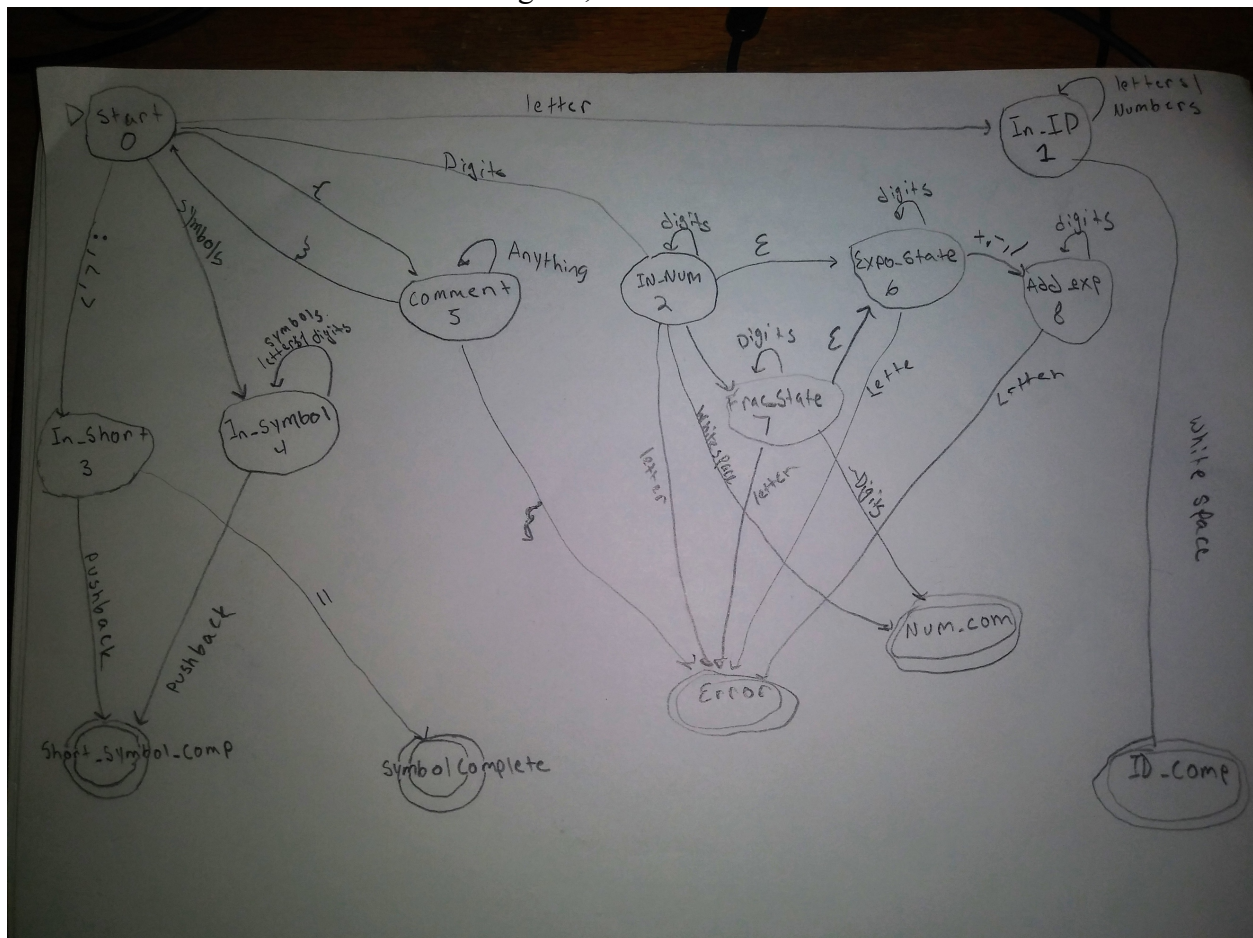
Overview:

In this project I am going to create a scanner for our Pascal language as described in the grammar given in class. The scanner will be created using the JFlex tool. This is just the beginning part for the compiler, which will be made in CSC 451. In order to find out the different reserve words and symbols, I went through that grammar and compiled a the list below.

#	Key Words	Symbols
1/26 	ID	+
2/27	PROGRAM	-
3/28	WHILE	=
4/29	IF	>
5/30	INT	>=
6/31	DIV	<
7/32	MOD	<=
8/33	OR	*
9/34	AND	/
10/35	ARRAY	;
11/36	DO	:
12/37	ELSE	[
13/38	THEN]
14/39	FOR	{
15/40	FUNCTION	}
16/41	VAR	(
17/42	READ)

18/43	BEGIN	,
19/44	END	.
20/45	NUM	:=
21/46	OF	!=
22	REAL	
23	PROCEDURE	
24	WRITE	
25	COMMENT	

So based on this list I created a state diagram, which is below:



Note: better image will be used

So based on this image I will creating a scanner will the help of the jflex tool.

Design:

The scanner will be created using the jflex tool.