CS 335 Semester 2023–2024-II Assignment 1

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Submission

The instructions given below are for problem 1 and exactly similar instructions can be used for problem 2 by just changing to directory to that of problem 2.

Compilation Instructions

Enter the problem 1 directory:

```
cd 210355-assign1
cd problem1
```

Run the following commands to compile the lexer:

```
flex prob1.l
gcc prob1.c lex.yy.c -o scanner
```

This should ideally generate an executable scanner

Running Instructions

Let's say the file to be tested is testcase1.knp. In the problem 1 directory, run the following commands:

```
./scanner testcase1.knp
```

This should ideally print the output lexemes on terminal, a sample output for public1.knp is shown below:

TOKEN	 I	COUNT	1			LEXEME		
STRING		1		"x i	នេ	greater	than	у"
STRING		1				greater		-
DELIMITER		2		(
DELIMITE	R	2)				
DELIMITER		1		,				
INTEGER		1		10				
INTEGER		1		20				
OPERATOR		2		:=				
DELIMITE	R	5		;				
KEYWORD		1		BEGI	N			
KEYWORD		1		ELSE	3			
KEYWORD		1		END				
OPERATOR		1		GT				
KEYWORD		1		IF				
KEYWORD		1		INTE	EGE	ER.		
IDENTIFI	ER	2		PRIN	ΙT			
KEYWORD		1		THEN				
IDENTIFIER		3		x				
IDENTIFIER		3		У				

Errors are printed as follows:

TOKEN	COUNT	LEXEME				
DELIMITER	 1	,				
INTEGER	1	10				
OPERATOR	1	:=				
DELIMITER	2	;				
KEYWORD	1	BEGIN				
KEYWORD	1	INTEGER				
IDENTIFIER	2	x				
IDENTIFIER	1	у				
Error found in line no: 4						
Encountered tex	ct: !					