Assignment - 1

Compiler Construction (CSC3201)

BSCS 5 - Fall 2023

Submission Deadline: Friday, October 20th, 2023

Write a program in java that should recognize the lexemes (operators) given in the table below and output the correct token name and the attribute value for them:

Lexeme	Token Name	Attribute Value
<	RELOP	LT
<=	RELOP	LE
==	RELOP	EQ
<>	RELOP	NE
>=	RELOP	GE
>	RELOP	GT

- Your program will be written in one .java file.
- It will take one line of input on command prompt.
- It should analyze the input character by character.
- It should **NOT** use any regex or any other pre-written library functions for recognizing lexemes/tokens.
- If input contains a lexeme that is not listed in the above table, then it should display it as error and as unrecognized lexeme.

Sample Input line:

Sample output on screen:

LEXI	EME TOI	KEN NAM	E ATTR	IBUTE	VALUE
<>	RE	LOP	NE		
>	RE	LOP	GT		
==	RE	LOP	EQ		
++	Error:	Unreco	gnized	Lexeme	<u> </u>
<=	RE	LOP	LE		

Submission Instructions:

- Submit your *.java* file in email to: khawaja.mohiuddin@szabist.pk (not @szabist.edu.pk)
- Email Subject should mention: **Assignment-1**, your **Section**, **Registration Id** and **Full Name**.
- If multiple emails sent for same assignment, 2 marks will be deducted on each extra email.
- If your .java file does not compile, you will get zero.
- If copied or partially copied code sent, you will get zero.
- Late submissions will get 2 marks deducted per day.
- Questions will be asked during evaluation by running your code in class.