Lab Practice Session # 2

Course Title: Compiler Construction Lab (CSTE-4106)

1. **Write a C program to handle errors in lexical analysis phase (See Lecture-3 for more examples)**
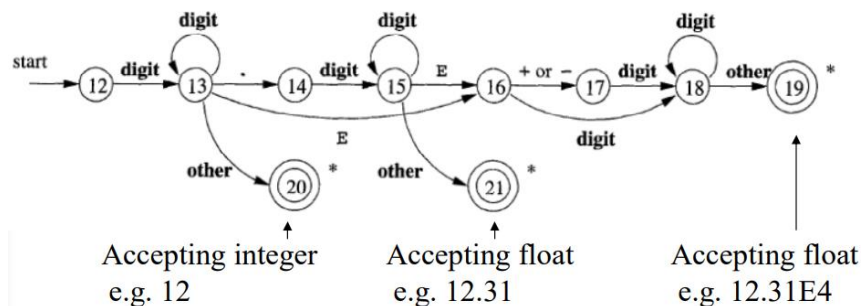
Sample Input/Output
Enter a code:
int main()
{
       printf("HI"); $
       Return 0;
}
Output: Lexical error!

2. **Write a C program that accept integer and floating-point numbers with exponentiation.**

Accepting integer
e.g. 12

Accepting float
e.g. 12.31

Accepting float
e.g. 12.31E4

Sample Input/Output
Enter a number: 12
Accepted!!
Enter a number: 12.31E4
Accepted!!
Enter a number: 15.4E
Rejected!!

3. **Write a C program to find epsilon closure of an NFA.**

Sample Input/Output

Input:	Output:
A 1 A	No of states: 3
A 0 B	States are:
A e B	A
B 0 C	B
B e C	C
	Epsilon closure (A)= {A B C}
	Epsilon closure (B) = {B C}
	Epsilon closure (C) = {C}

Assignment on Lexical Analysis:
4. Write a C program to perform symbol table management in a compiler.
5. Write a C program to find a DFA from an epsilon-NFA.