**PRACTICAL # 04**

**OBJECT:**

DFA implementation for floating point numbers.

**THEORY:**

Floating point numbers DFA designed in the previous lab is implemented in this lab.

**Program:**

This program recognizes floating point numbers from the code.

*using System;*

*class LexicalAnalysis {*

*public static void Main() {*

*string input = “int a=23, b; b=3+53”;*

*}*

*}*

Execute the program to observe the output.

**ACTIVITIES**

**Activity 1**

Write a program in C# that recognizes and outputs numbers from the code “int 2.34=dsf, 43,5.4a;”.

**Activity 2**

Implement a DFA for floating point numbers that allows to skip the + sign if the number is positive.

**REVIEW QUESTIONS**

1. What is the precision in floating point numbers?
2. How is a floating point number represented in the memory?