

# Engineering Notebook - Daily

**Course: Application Development**

**Intern Id: 170004**

**Intern's Name: G. Jawahar**

**Period: 2018-02-15 to 2018-02-15**

**Notes:**(Record key insights from readings and discussions.)

**Thursday: -**

**FSM Diagram to accept floating point error term values of just a single digit of precision, with and with an exponent**

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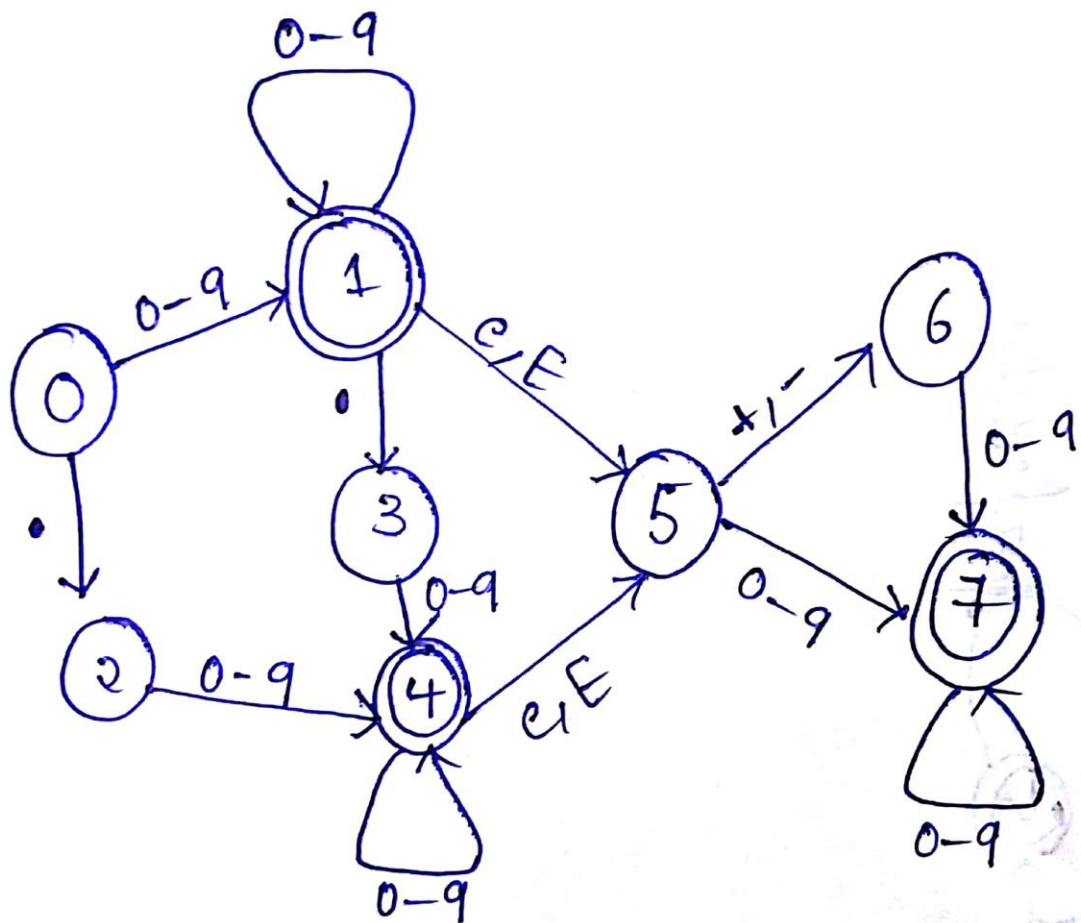
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FSM



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### Textual representation:

```
8
State 0
2
1 1 0-9
2 1 .

State F 1
3
1 1 0-9
3 1 .
5 2 e E

State 2
1
4 1 0-9

State 3
1
4 1 0-9

State F 4
2
4 1 0-9
5 2 e E

State 5
2
7 1 0-9
6 2 + -

State 6
1
7 1 0-9

State F 7
1
7 1 0-9
```

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#### **Out put obtained from eclipse:**

Welcome to the Finite State Machine System

printed by jawahar

Please enter the name of the file containing the Finite State Machine description:

Floating

Number of States: 8

State: 0

Number of Destinations: 2

Destination Number: 1 Destination State: 1 Number of codes: 1

Code: 3; Range: 0-9

Destination Number: 2 Destination State: 2 Number of codes: 1

Code: 1; Single Char: .

Error message:

State: F 1

Number of Destinations: 3

Destination Number: 1 Destination State: 1 Number of codes: 1

Code: 3; Range: 0-9

Destination Number: 2 Destination State: 3 Number of codes: 1

Code: 1; Single Char: .

Destination Number: 3 Destination State: 5 Number of codes: 2

Code: 1; Single Char: e

Code: 1; Single Char: E

Error message:

State: 2

Number of Destinations: 1

Destination Number: 1 Destination State: 4 Number of codes: 1

Code: 3; Range: 0-9

Error message:

State: 3

Number of Destinations: 1

Destination Number: 1 Destination State: 4 Number of codes: 1

Code: 3; Range: 0-9

Error message:

State: F 4

Number of Destinations: 2

Destination Number: 1 Destination State: 4 Number of codes: 1

Code: 3; Range: 0-9

Destination Number: 2 Destination State: 5 Number of codes: 2

Code: 1; Single Char: e

Code: 1; Single Char: E

Error message:

State: 5

Number of Destinations: 2

Destination Number: 1 Destination State: 7 Number of codes: 1

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```
Code: 3; Range: 0-9
Destination Number: 2 Destination State: 6 Number of codes: 2
Code: 1; Single Char: +
Code: 1; Single Char: -
Error message:
State: 6
Number of Destinations: 1
Destination Number: 1 Destination State: 7 Number of codes: 1
Code: 3; Range: 0-9
Error message:
State: F 7
Number of Destinations: 1
Destination Number: 1 Destination State: 7 Number of codes: 1
Code: 3; Range: 0-9
Error message:
No Errors were found!
```

Enter a string to see if it is recognized by the FMS. Enter an empty line to terminate.  
**123.67**

Current State	Final State	Input Char	Next State
0		1	1
1	F	2	1
1	F	3	1
1	F	.	3
3		6	4
4	F	7	4
4	F	None	

\*\*\* Success! \*\*\* End of input found at a final state and the input <123.67> WAS recognized.

**0.000001**

Current State	Final State	Input Char	Next State
0		0	1
1	F	.	3
3		0	4
4	F	0	4
4	F	0	4
4	F	0	4
4	F	0	4
4	F	1	4
4	F	None	

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\*\*\* Success! \*\*\* End of input found at a final state and the input <0.000001> WAS recognized.

### Deliverable Status

Deliverables	What did you plan to accomplish	What did you actually accomplish	Size	Effort
Science and engineering calculator part-3	To conduct team meetings and discuss about the requirements more clearly. Discussion about the progression of the work.	Team meeting was conducted, discussed about the requirements and clearing the doubt on the task. Discussing the progress of the task	30%	30 mins