

VI-Semester Mini Project (CSE65)

Review-I

(Max. Marks: 20)

Implementing the DFA using JAVA

Submitted to

***DEPARTMENT OF
COMPUTER SCIENCE ENGINEERING***

Under the Supervision of

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Signature with Date:



By

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NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated VTU, Approved by AICTE & UGC

Accredited by NAAC with 'A' Grade, Accredited by NBA

BANGALORE-560 103

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Algorithm:

ALGORITHM DFA

```
//input- a string of characters s[]
//output- accepted if the string follows the dfa otherwise displays not accepted
n=s.length()
i->0
a=s.charAt(i)
last_state= start(a)
if(last_state==1) then          //if final state is the last state
    display "the string is accepted"
else
    display "the string is not accepted"
end
```

ALGORITHM start(char a)

```
// algorithm for the start state and all the intermediate state Q
If i==n || a not in('a','b') then
    Return 0
z=s.charAt(i+1)
else if a=='a' then
    i=Qm(z)          // call other state according to dfa
else
    i=Qn(z)          // call other state according to dfa
return i;
```

ALGORITHM final(char a)

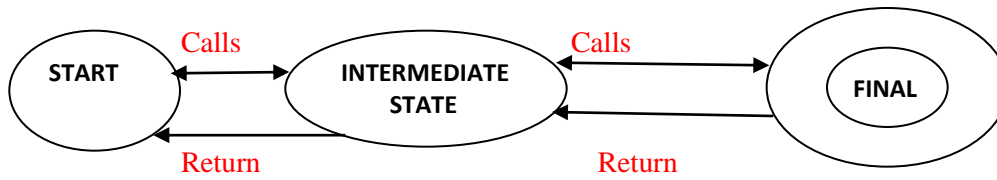
```
// algorithm for all the final state
if a not in ('a','b') then return 0
else If i==n then
    Return 1
z=s.charAt(i+1)
else if a=='a' then
    i=Qm(z)          // call other state according to dfa
else then i=Qn(z)    // call other state according to dfa
return i;
```

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Architecture:



Software:

The software required for the above project is the jdk (java development kit).