

## INSTITUTE OF INFORMATION TECHNOLOGY JAHANGIRNAGAR UNIVERSITY

**Number of Assignment**: 03

**Submission Date** : 31/05/2022

**Course Tittle** : Theory of Computing

Course Code : ICT - 3105

## **Submitted To**

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3<sup>nd</sup> year 1<sup>st</sup> Semester

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Question: Create a NFA that describes the language of String {a,b} that end in "bb"

## Answer to the question no-1

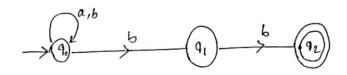
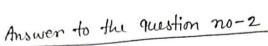
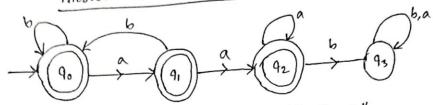


Fig: Acepet string end with "66"

Question: Design DFA that describes the language of String garbf that do not contain the string "aab".





Fiz: DFA that do not contain "aab" L = {w/w do not contain "aab"}

$$\Sigma = \{a, b\}$$
 $q_0 = q_0$ 
 $F = \{q_0, q_1, q_2\}$