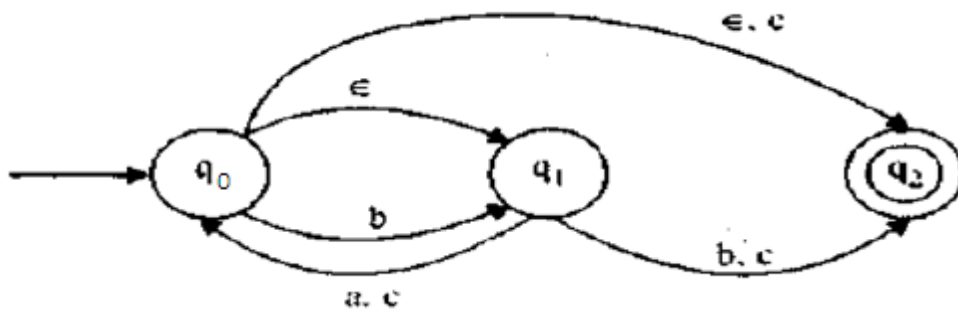


United College of Engineering and Research ,Naini,Prayagraj
Computer Science and Engineering Department
Compiler Design(RCS-602)
Unit 1(Introduction about compiler)
Asked in AKTU Lucknow(2014-18)
Prepared By: Prabhat Shukla

1. What are the two parts of compilation explain briefly?
2. What are the classifications of compiler?
3. Convert the following NFA to equivalent DFA and hence minimize the number of states in the DFA.



4. Construct the minimized DFA for the regular expression $(0+1)^*(0+1)$
5. Draw NFA for the regular expression ab^*/ab .
6. What is cross compiler?
7. What do you mean by regular expression?
8. Differentiate compiler and interpreter.
9. Discuss the challenges in compiler Design.
10. What is translator?
11. What is compiler and assembler.
12. Write down the regular expression for
 - The set of all string over $\{a,b\}$ such that fifth symbol from right is 'a'.
 - The set of all string over $\{a,b\}$ such that every block of four consecutive symbol contain at least two a.
13. Explain the necessary phases and passes of compiler design.
14. Explain the term lexeme, pattern, tokens.
15. Describe various compiler writing tools.
16. Construct the NFA for the regular expression $a/abb/a^*b^+$ by using Thomson's Construction methodology.