Mindluster Platform

About the course AUTOMATA THEORY

Automata theory is the study of abstract machines and automata, as well as the computational problems that can be solved using them. It is a theory in theoretical computer science. The word automata comes from the Greek word Î±á½Ï„ÏŒÎ¼Î±Ï„Î¿Ï‚, which means "self-acting, self-willed, self-moving".

Programming Category's Courses

Course Lesson(40)

Lesson 1 :
INTRODUCTION TO AUTOMATA THEORY AND ITS APPLICATIONS || THEORY OF COMPUTATION || FORMAL LANGUAGES

Lesson 2 :
BASIC NOTATIONS REPRESENTATIONS IN AUTOMATA THEORY || BASICS OF AUTOMATA || THEORY OF COMPUTATION

Lesson 3 :
WHAT IS FINITE AUTOMATA AND REPRESENTATION OF FINITE AUTOMATA || THEORY OF COMPUTATION

Lesson 4 :
TYPES OF FINITE AUTOMATA DFA NFA IN AUTOMATA THEORY || DFA NFA || THEORY OF COMPUTATION

Lesson 5 :
DETERMINISTIC FINITE AUTOMATA DFA EXAMPLE 1 STRINGS STARTS WITH IN AUTOMATA THEORY || TOC

Lesson 6 :
DETERMINISTIC FINITE AUTOMATA DFA EXAMPLE 2 STRINGS ENDS WITH IN AUTOMATA THEORY || TOC

Lesson 7 :
DETERMINISTIC FINITE AUTOMATA DFA EXAMPLE 4 STRING LENGTH IN AUTOMATA THEORY || TOC

Lesson 8 :
DETERMINISTIC FINITE AUTOMATA DFA EXAMPLE 5 DIVISIBLE BY IN AUTOMATA THEORY || TOC

Lesson 9 :
DETERMINISTIC FINITE AUTOMATA DFA EXAMPLE 6 EVEN S ODD S IN AUTOMATA THEORY || TOC

Lesson 10 :
DETERMINISTIC FINITE AUTOMATA DFA EXAMPLE 3 SUBSTRING OR CONTAINS IN AUTOMATA THEORY || TOC

Lesson 11 :
NFA NON DETERMINISTIC FINITE AUTOMATA WITH EXAMPLE IN AUTOMATA THEORY || THEORY OF COMPUTATION

Lesson 12 :

DIFFERENCES BETWEEN DFA NFA IN AUTOMATA THEORY || DFA NFA || THEORY OF COMPUTATION

Lesson 13 : **EPSILON CLOSURE IN AUTOMATA THEORY || NFA WITH EPSILON || TOC**

Lesson 14 :
CONVERSION OF NFA WITH EPSILON TO NFA WITHOUT EPSILON IN AUTOMATA THEORY || TOC

Lesson 15 :
CONVERSION OF NFA TO DFA WITH EXAMPLES IN AUTOMATA THEORY || NFA TO DFA CONVERSION || TOC

Lesson 16 :
MINIMIZATION OF DFA WITH EXAMPLE IN AUTOMATA THEORY || DFA MINIMIZATION || TOC

Lesson 17 :
EQUIVALENCE BETWEEN TWO DFA IN AUTOMATA THEORY || EQUIVALENCE BETWEEN TWO FSM S || TOC

Lesson 18 :
REGULAR EXPRESSIONS IN AUTOMATA THEORY || REGULAR EXPRESSION WITH EXAMPLE || TOC

Lesson 19 :
IDENTITY RULES FOR REGULAR EXPRESSIONS IN AUTOMATA THEORY || IDENTITIES OF REGULAR EXPRESSIONS ||TOC

Lesson 20 :
ARDEN S THEOREM IN AUTOMATA THEORY || EQUIVALENCE OF TWO REGULAR EXPRESSIONS || DFA TO RE || TOC

Lesson 21 :
CONVERSION OF FINITE AUTOMATA TO REGULAR EXPRESSION USING ARDENS METHOD IN AUTOMATA THEORY || TOC

Lesson 22 :
CONVERSION OF FINITE AUTOMATA TO RE USING STATE ELIMINATING METHOD IN AUTOMATA THEORY || TOC

Lesson 23 :
CONVERSION OF REGULAR EXPRESSION TO FINITE AUTOMATA USING SUBSET METHOD IN AUTOMATA THEORY || TOC

Lesson 24 :
CONVERSION OF REGULAR EXPRESSION TO FINITE AUTOMATA USING DIRECT METHOD IN AUTOMATA THEORY || TOC

Lesson 25 :
PUMPING LEMMA IN AUTOMATA THEORY || PUMPING LEMMA FOR REGULAR LANGUAGES WITH EXAMPLES || TOC

Lesson 26 :
REGULAR GRAMMAR IN AUTOMATA THEORY || GRAMMAR || LEFT LINEAR GRAMMAR || RIGHT LINEAR GRAMMAR || TOC

Lesson 27 :
CONTEXT FREE GRAMMAR IN AUTOMATA THEORY || CFG IN ATFL || TOC || AUTOMATA THEORY

Lesson 28 : **DERIVATION TREE PARSE TREE IN AUTOMATA THEORY || DERIVATION || TOC**

Lesson 29 :
TYPES OF DERIVATION TREE LEFT MOST RIGHT MOST IN AUTOMATA THEORY || TOC

Lesson 30 :
AMBIGUOUS GRAMMAR IN AUTOMATA THEORY || AMBIGUITY IN CONTEXT FREE GRAMMAR || TOC

Lesson 31 :

DIFFERENCE BETWEEN REULAR GRAMMAR AND CONTEXT FREE GRAMMAR IN AUTOMATA THEORY || TOC

Lesson 32 :
REMOVAL OF USELESS PRODUCTIONS SIMPLIFICATION OF CFG IN AUTOMATA THEORY || TOC

Lesson 33 :
REMOVAL OF NULL EPSILON PRODUCTIONS SIMPLIFICATION OF CFG IN AUTOMATA THEORY || TOC

Lesson 34 :
REMOVAL OF UNIT PRODUCTIONS SIMPLIFICATION OF CFG IN AUTOMATA THEORY || TOC

Lesson 35 :
CHOMSKY NORMAL FORM CNF CONVERSION OF CFG TO CNF IN AUTOMATA THEORY || CFG TO CNF || TOC

Lesson 36 :
TYPES OF RECURSIONS AND REMOVAL OF LEFT RECURSION IN AUTOMATA THEORY || LEFT RECURSION || TOC

Lesson 37 :
GREIBACH NORMAL FORM GNF AND CONVERSION OF CONTEXT FREE GRAMMAR TO GNF IN AUTOMATA THEORY || TOC

Lesson 38 :
PUSHDOWN AUTOMATA PDA IN AUTOMATA THEORY || PDA INTRODUCTION || WHAT IS PDA

Lesson 39 : PUSHDOWN AUTOMATA EXAMPLE a n b n | PDA EXAMPLE | TOC

Lesson 40 :
INSTANTANEOUS DESCRIPTION ID OF PDA IN AUTOMATA THEORY || ID OF PDA || ACCEPTANCE OF STRING || TOC

Related courses

React Projects Workshops

Node js back end JavaScript

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for Business Contact
business@mindluster.com