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|  | **Charotar University of Science and Technology**  **Devang Patel Institute of Advance Technology and Research**  **Department of Information Technology** |  |

Subject: Language Processor Semester: 7th

Subject Code: IT443 Academic Year: 2022-23

Student ID: Student Name:

Practical Index

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| **Sr.**  **No.** | **AIM** | **COs** | **Start Date** | **End Date** | **Grade** | **Assessment Date** | **Signature** |
| 1 | Implement a lexical analyzer for a subset of C using LEX Implementation should support Error handling. | 1 |  |  |  |  |  |
| 2 | Implement a lexical analyzer for identification of numbers. | 1 |  |  |  |  |  |
| 3 | Write an ambiguous CFG to recognize an infix expression and implement a parser that recognizes the infix expression using YACC | 3 |  |  |  |  |  |
| 4 | Implement a Calculator using LEX and YACC. | 3,4 |  |  |  |  |  |
| 5 | Implementation of Syntax Tree. | 2,4 |  |  |  |  |  |
| 6 | Implementation of Context Free Grammar. | 3,4 |  |  |  |  |  |
| 7 | Design of a Predictive parser. | 3,4 |  |  |  |  |  |
| 8 | Implementation of code generator. | 6 |  |  |  |  |  |
| 9 | Implementation of code optimization for Common sub-expression elimination, Loop invariant code movement. | 6 |  |  |  |  |  |
| 10 | Implement Deterministic Finite Automata. | 2,3 |  |  |  |  |  |