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| xp.No | Title  **Assignment List** |
| 1 | Write a Java/ C program to create child process using fork system call. Display status of running processes (ps), use it in child process (exec) and terminate child process before completion of parent task(wait). |
| 2 | Write a Java Program (using OOP features) to implement paging simulation using  1. Least Recently Used (LRU)  2. Optimal algorithm |
| 3 | Write a program using Lex specifications to implement lexical analysis phase of compiler to generate tokens of subset of ‘Java’ program. |
| 4 | Write a program using Lex specifications to implement lexical analysis phase of compiler to count no. of words, lines and characters of given input file. |
| 5 | Write a program using YACC specifications to implement syntax analysis phase of compiler to validate type and syntax of variable declaration in Java. |
| 6 | Write a program using YACC specifications to implement syntax analysis phase of compiler to recognize simple and compound sentences given in input file. |
| 7 | Design suitable data structures and implement pass-I of a two-pass assembler for pseudo machine in Java using object oriented feature. Implementation should consist of a few  instructions from each category and few assembler directives. |
| 8 | Implement Pass-II of two pass assembler for pseudo-machine in Java using object oriented  features. The output of assignment-1 (intermediate file and symbol table) should be  input for this assignment. |
| 9 | Design suitable data structures and implement pass-I of a two-pass macro-processor using  OOP features in Java |
| 10 | Write a Java program for pass-II of a two-pass macro-processor. The output of assignment-3  (MNT, MDT and file without any macro definitions) should be input for this assignment. |
| 11 | Write a Java program (using OOP features) to implement following scheduling algorithms:  FCFS , SJF (Preemptive), Priority (Non-Preemptive) and Round Robin (Preemptive) |
| 12 | Write a Java program to implement Banker’s Algorithm |
| 13 | Write a program to create Dynamic Link Library for any mathematical operation and write an application program to test it. (Java Native Interface / Use VB or VC++). |
| 14 | Study assignment on process scheduling algorithms in Android and Tizen. |