

B G I E T NEWSLETTER

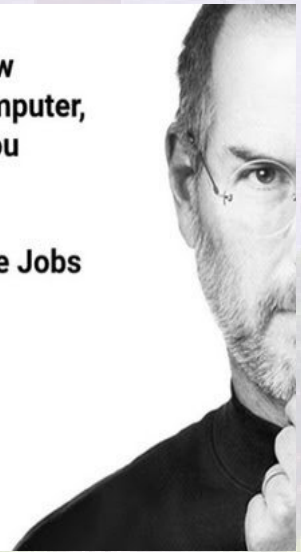
DEPARTMENT OF CSE

VISION

To be a center of excellence in technical education, research and support services to produce comprehensively trained, innovative Computer Science Engineers of highest quality to contribute to the Nation's

"Everyone should know how to program a computer, because it teaches you how to think."

Steve Jobs



MISSION

M1. Create an environment of skill learning through faculty training, online learning, sound academic practices and research endeavors

M3. To uplift innovative research in Computer Science and Engineering to serve the needs of industry, Government and society.

M2. Provide opportunities to promote organizational and leadership skills in students through various extra-curricular and co-curricular events

M4. Providing social awareness and responsibility in students to serve the Nation and to protect environment.

DEPARTMENT OF CSE

NEWSLETTER

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DEPARTMENT OF CSE NEWSLETTER

FROM THE HOD'S DESK



Congratulations to the team for the upcoming edition of CSE Messenger! It is your hard work & dedication that this newsletter is holding the pride of the department & is raising the standards of excellence.

Dr. Arun Kumar Singh

DEPARTMENT OF CSE NEWSLETTER

FROM THE EDITOR'S DESK



The bond between a mentor and a disciple is really worked hard for this newsletter and I would-like to appreciate everyone for their mind blowing efforts. I would like to request the readers to have a joy of reading this newsletter and request you to send me any queries or suggestions regarding this to my email: yadvindersss@gmail.com

DEPARTMENT OF CSE NEWSLETTER

FROM THE STUDENT EDITOR'S

The content in this newsletter is in perfect blend of quality. It is an incredible platform for real technical, managerial & social insight. hence, in a perfect tune to convert a raw student into successful one.

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NEWSLETTER

Online Guest Lecture on RTOS, Advances in File and Disk Management. (16/04/2020)

By: Dr Neeraj Singla (Associate Professor)

Real-time operating systems (RTOS) are used in environments where a large number of events, mostly external to the computer system, must be accepted and processed in a short time or within certain deadlines. Such applications are industrial control, telephone switching equipment, flight control, and real-time simulations. With an RTOS, the processing time is measured in tenths of seconds. This system is time-bound and has a fixed deadline. The processing in this type of system must occur within the specified constraints. Otherwise, This will lead to system failure.

File management is one of the basic and important features of operating system. Operating system is used to manage files of computer system. All the files with different extensions are managed by operating system.

A file is collection of specific information stored in the memory of computer system. File management is defined as the process of manipulating files in computer system, its management includes the process of creating, modifying and deleting the files. It helps the user to modify the data of files or to modify the name of the file in the directories.

The following are some of the tasks performed by file management of operating system of any computer system: It helps to create new files in computer system and placing them at the specific locations.

It helps in easily and quickly locating these files in computer system. It makes the process of sharing of the files among different users very easy and user friendly.

It helps to store the files in separate folders known as directories. These directories help users to search file quickly or to manage the files according to their types or uses.



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NEWSLETTER

Online Technical Talk on Familiarization with Lex and YACC Programming (27/04/2020)

By: Dr Sandeep Kang (Assistant Professor)

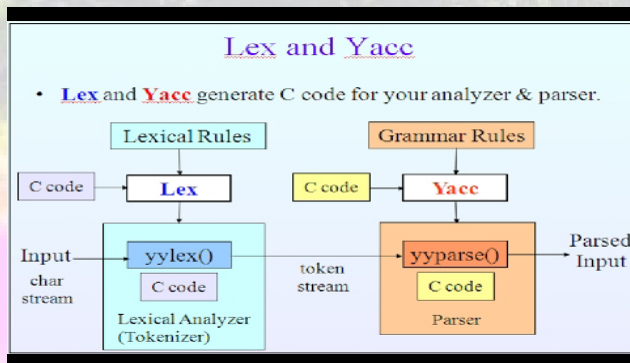
The main objective for this talk, is of-course for you to familiarize yourself with the compiler tools Lex and Yacc (or Flex and Bison). Here are some hints on getting familiar with the tools.

Key Concepts:

Lex & Yacc Programming

Token Definitions

Grammar Generation and Recognition



Part 1: Just Lexing:

HTML Tags: The HTML standard defines a wide variety of tags. Since the goal of this assignment is to learn to use compiler front-end tools, we will approximate this with a much simpler definition: A tag is a sequence of characters of the form $\langle S \rangle$, where S is a character sequence that begins with a non-whitespace printable character and does not contain any “>” characters.

Printable characters are specified via the C library function `isprint()`; whitespace characters are specified via the C library function `isspace()`. They correspond to the flex character class expressions `[:print:]` and `[:blank:]` respectively.

Part 2: Lexing and Yaccing: Functionality:

Your tool should have the following functionality. It should read its input from `stdin`, ensure that the input follows the grammar rules for our subset of HTML, discard all HTML tags and comments, and write the remaining text to `stdout`.

The text output should “simulate” HTML characteristics such as list indented, breaks, paragraphs and as much that can be simulated by plain text characters. Naturally, it is assumed that you cannot simulate font characteristics, such as bold and italic.

Grammar:

You need to ensure that the input minimally follows the grammar rules listed below. You are expected to implement additional tags and productions (details later).

Lexical Rules :

A tag is a sequence of characters of the form $\langle S \rangle$, where S is a sequence of printable characters not beginning with a white space character and not containing any “>” characters.

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Online Workshop on Advance Project Management Tools and Solutions

-Bhilwara Infotech Limited

The Advance Project Management Workshop is targeted for practicing project managers and senior managers looking to sharpen their project management skills. It will help in building knowledge and skills for leading and directing projects and delivering project results within various organizational constraints. It is a complete course covering all the aspects of project managements and helps in balancing Time, Cost, Scope, Risk and Stakeholders requirements. It provides a platform to discuss real life project issues and finding solutions for the same using practical examples and case studies.

What you'll learn

- Recognize the importance of stakeholder walk through, technical team inspections and peer reviews.
- Learn about dangerous words that should be weeded out of the requirements documents.
- Understand work breakdown structures (WBS) and Network Diagrams.
- Learn about Wide-Band Delphi estimation technique.
- Appreciate the concept of the cost baseline.
- Understand how to conduct a bottom up estimation.



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Discussion On “Python”(Online)

Python is a high-level, interpreted, general-purpose programming language. Its design philosophy emphasizes code readability with the use of significant indentation. Python is dynamically typed and garbage-collected. Installing Python is generally easy, and nowadays many Linux and UNIX distributions include a recent Python. Even some Windows computers (notably those from HP) now come with Python already installed.



Python is commonly used for developing websites and software, task automation, data analysis, and data visualization. Since it's relatively easy to learn, Python has been adopted by many non-programmers such as accountants and scientists, for a variety of everyday tasks, like organizing finances.

“Writing programs is a very creative and rewarding activity,” says University of Michigan and Coursera instructor Charles R Severance in his book Python for Everybody. “You can write programs for many reasons, ranging from making your living to solving a difficult data analysis problem to having fun to helping someone else solve a problem.”

What can you do with python?

Some things include:

Data analysis and machine learning

Web development

Automation or scripting

Software testing and prototyping

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LAB SESSION ON ARTIFICIAL INTELLIGENCE MODELS

Artificial intelligence is the simulation of human intelligence processes by machines, especially computer systems. Specific applications of AI include expert systems, natural language processing, speech recognition and machine vision.

How does AI work?

As the hype around AI has accelerated, vendors have been scrambling to promote how their products and services use AI. Often what they refer to as AI is simply one component of AI, such as machine learning. AI requires a foundation of specialized hardware and software for writing and training machine learning algorithms. No one programming language is synonymous with AI, but a few, including Python, R and Java, are popular.

In general, AI systems work by ingesting large amounts of labeled training data, analyzing the data for correlations and patterns, and using these patterns to make predictions about future states. In this way, a chat-bot that is fed examples of text chats can learn to produce lifelike exchanges with people, or an image recognition tool can learn to identify and describe objects in images by reviewing millions of examples.

AI programming focuses on three cognitive skills: learning, reasoning and self-correction. Learning processes. This aspect of AI programming focuses on acquiring data and creating rules for how to turn the data into actionable information. The rules, which are called algorithms, provide computing devices with step-by-step instructions for how to complete a specific task.

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Republic Day Celebration



Republic Day is celebrated every year in our college on 26th January. The celebration started with flag hosting and National anthem.

The campus Director, Dr. Tanuja Shrivastva has appreciated the patriotic dance performed by CSE students of BGIET, Sangrur. A melodious patriotic "Vande Matram" was sung by CSE girls. The Celebration was concluded by distributing the sweets to the students.

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NEWSLETTER

Debate-Is digital technology making children's lives better?



Debate was conducted in the month of February by the CSE Department to uplift the Personality Development skills of the students. The Debate was conducted in the library conference hall under the supervision of our faculty members.

Students have gained multifarious skills like:

- Gaining broad, multi-faceted knowledge cutting across several disciplines outside the learner's normal academic subjects.
- Increasing learners' confidence, poise, and self-esteem.
- Providing an engaging, active, learner-centered activity.
- Improving rigorous higher-order and critical thinking skills.