* FPGA Basics: Architecture, Applications & use:-

A Basic FPGA Architecture consists of thousands of Fundamentals elements called configurable logic blocks (CLB's) surrounded by a system of programmable interconnects, called a fabric, that routes signal b/n CLBs. i/ps & o/ps (I/O) Blocks Interface between the FPGA & external devices.

* Depending on the manufacturer, the CLB may also referred to as a Logic Block (LB), a logic Element (LE) or a logic cell (LC).

* Application:-

* Many Application rely on the parallel Execution of Identical operations; the Ability to configure the FPGA's CLB into hundreds / thousands of Identical processing blocks has Applications in Image processing, AI, data center hardware Accelerators, Enterprise Networking and Automotive Advanced drive assistance (ADAS).
Many of these Application areas are changing very quickly as requirements Evolve & New protocols and standards are adopted. FPGA's Enable manufacture to Implement s/m that can be updated when necessary

* A Good Example of FPGA use is High speed search: Microsoft is using FPGA's in the data center's to run Bing search Algorithms. The FPGA can change to support new Algorithms as they are created. If needs change, the design can be repurposed to run to run Simulation/ Modelling routines in an HPC Application. This Flexibility is difficult / impossible to achieve with an ASIC.

* Other FPGA Includes Aerospace and defense, medical electronics, digital Television, Consumer Electronics, Industrial motor control, Scientific instruments, Cybersecurity security s/m's, and Wireless communications.

Verilog HDL basics by intel:- (HDL) It is a language used for describing a digital s/m like a Network Switch or a Microprocessor / memory / flip-flop.

* It Means, by using a HDL We can describe by any digital hardware at any level. Designs, which are described in HDL are Independent of Technology, Very easy for designing and debugging, and are Normally useful than schematics, particularly for large ckts:-
* Behavious level
* RTL Level.
* Gate level.
* Lexical Tokens
* Numbers.
* Identifiers
* Operators
* Data types.
* Operands
* Modules.

Python Repost.

Date:- 02-06-2020

Name:- G. Ravi Teja

Course:- Python

USN:- 4AL16EC101.

Topic:- Interactive data Visualizn With Bokeh
Webscraping With python beautiful Soup.

Sem & Sec :- 6th B

Interactive data Visualization With bokeh:-

* Introduction to Bokeh.
* Installing Bokeh.
* plotting Tocuircles and circle Graphs (Practice)
* Using Bokeh With pandas.
* plotting Education Data (Practice).
* plotting Weather Data (Practice).
* Visual Attributes.
* Time-series plots.
* Mose Visualization With Bokeh.
* plotting Time Intervals of the motion Detectors.
* Hover Tool Implementation.

Webscrapping With python beautiful soup:-

* Web scraping is Scraping Information from web.
  We will use the beautiful soup library.
* It Enables us to grab the Information from the big Website.
* Again the Jupyter notebook comes into picture as We were Masking with data.
* The data is thus Extracted from the specified website.

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