Date: 216/20 Course: Digital derign using HDL Tepici- FP4 A Basics.

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- * FPGA es an integrated che that consits of internal hardware blocks with user-programmable interconnects to constraige operation for a specific application.
- * FP4A has its ooots in earlier devices such as program mable read only memories.
- * FP4A stores its configuration information in a reprogrammable medium such as (SRAM) or flash memory.
- & FPGA uses:
 - -> The ability to configure the hardware of the FPGA or configure it when needed & optimize it for a particular set of functions
 - FP4As are often used to provide a custom solution in situations in which developing an ASIC would be too expensive of time consumery.

+ FPYA Applications:

- -> orly on the parallel encution of identical operations; the ability to configure
- -> A good example of FP4A we its high-speed search: Nicrosoft is using FP4As in its clarate centers to sun Bing search alignsithm.

- A FPGAR history
 - → with these emerging application the FP4A market es growing at a healthy Uip: It was valued more en 2016
- -> Exponential growth of data & the emergence of tast charging feild such as AI martine learning, HPC etc.

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- * HDL (Hardware description language)
 - Tt has 3 abstractions
 - · Behavioural level
 - · Register toansfer level
 - · yate level.

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Pater- 2/6/20 Courser- python Topic 1- Application7 Name:-Hasshitha.T USN:-UALI7G-CLOG Semf Sec:- 6th B

A ureage of while loop.

To while loop does the exactly same thing as that of it statement does, but instead of running the code block on a, they jump back to the starting point of the procedure.

syntan:- while expression

or In python "for loops" are called iterators. Just the while loop, for loop is also repeated the sound

* Break point is unique function for loop that allows you to break or terminate the execution of the for loop.

En: # month = ["Jan", Feb, "Mar", April", May", Jun"]

It for m in months:

point m

for x rn rang (10,20);

if (x==15): break

if (x1.2==0): continue
print (x).

- * In this example we declared the no. from 10-20, but we want that loop to terminate at number 15 but we want that loop to terminate at number 15 and stop executing further) so we have included and stop executing further) so we have included the break function by defining (x == 15); break
- to the same way how to use continue function as also learnt
- terminate the current itteration of the for loop but will continue execution of the remaining iterations

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