Subject: ULSI L6- Sequential Circuit,	
sequential circuits must use sequential statments in	inside
ar chitecture.	To protect the same
Santil The training of the last of the las	-
Sequential statments: if else and Swith Case	4 T
latches:	
Latchesi.	
It used to store signal "1-bit".	
It doesn't have CIK on Reset	
It has Control signal Called "Load", which determine la	11.
	Ach's_
when load is din	
@ High > dout <= din	dout
Blow dont = last stored value load	
In the Cade we use if without	
In the Code, we use if without load load	
The check of the last	
glatch a Value: means to keep din	
This value stored until next?	
Trigger dout	
sarchitecture vtl of late	his_
entity letch is begin	15.
Port(din, load: in std logic; Process (din, load)	
dout : nut std-logic); { begin	
endentity (atch:) if (lead = 1') then	
dout <= din;	1
end process;	
end rtl;	

Date: 1/ / Subject: Land Latings 2 - 6 1. FlipFlops, "O-Plipflog" It used to store signal "1-bit".

It has reset and clock (CIK). Clk has two modes: a. *Rising edge. + b. Palling edge. 1 Reset has two modes: (Hardware & Push Button) a. Synchronus Trisgnewith CIK priority: CIK reset First, Echeck for C/K's Vising edge, then check Reset: b. Reset = low > 9 = din b. Asynch Vonus: + + 9: 53 priority reset alk to First, Check for Yeset: a. Reset - High , q-initial value. b. Reset - low , check for CIK's. CIK's vising edge , qualing 17 a datal 2. Its sites * change in sequential circuit of depends on clk. Ly don't changes at the moment of CIK's rising edge and stay Fixed between two Vising edges. Reset active high, Reset=1 > change in 01P

Subject: Date: / / write UHDL ade for the Pollowing Diagram: entity circuit 1 is

Port(x, y, clk, rst: in std logic; and plp

end entity circuit 1;

end entity circuit 1; circuit 1 architecture Al of circuit 1 is begin process (CIK, rst) variable din: std logic; begin is (xst-11) then 9<-10'; essif (rising edge (CHK)) then dinz-x XOR y; endif; end processor; end vtl; * Variable: of I jeles sequentials comparatories is a le acciring sequential (Comparativier) Elo