Terminal In you folder gure - sech sech as we had seen in Figure -1.139 in a new tab as show >csh > hampe > source / home / install / cshuc Step 1: CREATE A LIBRARY Lytools -> library Mugagus Then window will pop up them. Latile - New -> library. In bothom tuskbur them will be technology window blinking click that & Select -> Altach to an existing technology library. Lo Select: - gpdk180 -> Apply -> ok. 8-127 D: CREATE A CELL VIEW you should first click -In file manager La File-a New-scell view on your library that you have created thun only -> give cell Dome & ok the New cell view ophor will come. STEP3. ADD AN INSTANCE -> create -> Instance or click ('I') oin keyboard. -> Add Instance window will pop up 1 library: gpdk 180 cell Dame: JM05 view: Symbol Total width: 1.74 length: 1800 - click hide & click anywhem on Schematic window

Similarly create PMOS with give values Lo click I Lo cettaieuse de library: 47d/180 Lo collnume: PMOS Ly view: Symbol total width: 1.275u length Q:- 180n - Hide en click on the Schemulic where you wand to put it. -> Creule -> Pin or (little pin ophion on top.) Locreate pin for Input & output type of received - After creat Adding all the pins use min to make respective connections. .- Theck & Save [If no warning] then continue. I step 4: Symbol Creation Esta Schemulic window
Lacreale - cellview-s from cellview [verify Muny] -> Symbol generation options will pop up Liput where you want your pins to be placed Cleffiuss, righti-voo....] LTOK 8tep 9: Test Civilit for Simulution -)In vivivoso Lifile - New - rell view -> [cell:- CMOS-tb] - Intentiek your Symbol Lyclick I' Lo Select your library Ly & préviou cell.

- Add Intunie by In analog lib' library Li Add Wc, Upolse cop, grd - Add A, B pins Input I make all the connection your wive - Tcheck & Save Step 6: FUNCTIONAL SIMULATION WITH SPECTRE: -> lounch L7 ADE L -7 In ADFL window -> Add patheny by volus for A & B Lashmuldype II Lo Enabelle function: bit L'ione value 1-1.8 milles noile missible loca Rise time: In B: pulhon: 00011011

Pulhou: 11001001 zero value : 0 -Similarly for B with different pattern.

Step 7. STECTING THE ANALYSIS Jn WINDSO window La Analysis Lo choose -truntahan - ship time loon moduste 17 Sho 8: SELECTING THE SIGNALS TO BE PLOTTED In SADEL Window Loutput Losetup - New window will pop up Lachaose Input & output wives - Janiny ADEL State Session: Save State (ellview) 8479: RUNNING THE SIMULATION -In ADEL window Losimulation La Wetlist & Run -sgrap Liblipt ull lines Step10: CALCULATE THE DELAY - Select culculular - In Signal 1: Select Any one Input (A or B) -In Signal 2: Select 017. -> Threshold value 1 = value 2 = 0.75 -ronce: tulie Edge type 1:- vising | second one as fulling : vising. - get two value Add both & : by

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30 h main file where we you tronsish, La layout XL - a create lew 12 - Automatic 12-2016 Lo Loune h - layout window will pop up 4000 bronnechily All from Source (minim Sep:-1) Lyenewie - tit all component in rechurch. - sto all metal to metal connection click P for metal - How connect byw bow pins like A & B we be we should hake poly Ly creat Lyvia Louis-defination Ly MI_POLYI) -) sour - sour body bype - Inhe gratio. - for middle " " - rdehiched.

There will another one port at middle Take that connect it to uss Lobollow one DRC: 84012 ASSUVP Litechnology -Thomp Lilnshill Defoundary bunolog Ly 180 nm Ly Right side (assuru. hol) 170K Assuva LIRUN DRC no emous. Assura Livon LUS. Latechnoly : - ydple 100 Chipis

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-) tusti bur exhal window open Lit should say match. ORC Assura Likun Qutas DRC restroction Creahoction Mpe: RC reference. Node: USS or GND Look ->successfull. Viver so Ly Wordy moneyer.
Lychos I - library. MolD (MOS -) main file Low-extracted by click -ropen file This will be thuy La choose wato (MOS_16 view:-schemolin -) again double click as exhacted. 78hift - f for voly.

(10)

file Cell:-moin tile Lightnipw Lo hype - only LOK view: Schematic cell: (MOS-W. Lousa template Wame = Speche & Loli Look free view P) 10 ((MOS - ...) Li Right eliele 12 gpt Inghouse value Ly av-eshacted -> Saup Launch L7 ADE-L · Losef model library Crafivst only tick & SS La Anulysis
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outputs Set Litron dyign -> Select JP & OIP. -> nellist won. 943972 - 9 mull/