Block Diagram Teltberch Durpert Input Signal Output Signey Clock (cuk) dul Dara Volid line Input characters RL Encoder Puth to Extract hoon Buffer Output, Counters Dut put. Buffer

b) We have used sequential code since any type of code was allowed Detailed explanations of the code on is mentioned in comments. Here is the flowchart explains the behaviour of code.

(Or viencoder. vhol) Code Input Flush exists Yes 405 store in last set first to 1 20 Yes Put in buff No 15 current last= ESCENT ESC = lost ESC cnt=0Yes No Esc cunt count countth oount > in bulbe UNF=0 NO Yes sym sym count=2 Put in buffer wunt = D No sym in butt unt =0

NOTE - We have used '11111111 as a symbol which is sent when the no input / output left while flushing.

Note- To use you have to specify the file location of input and output files in the testbench





