Parity Generator & checker Let's take 3-bit data Panity bit [logic] - > Even parity -> no. of is in data bit even EP=0 (Remain it euen)

-D mo, of 1'S in data bit odd

(EP)=1 (Make it euen) no. of I's in tata bit every (OP) 6=1 (Make it odd) -> no. of is in data bit odd (OP) b = 0 (Remark it od) Even pan'ty B 097 Eun parity odd pan'ty = ( Eeren pan'ty =) ABC + ABC + ABC+ABC odd panity = (A & B & C) =) A (BOC) + A (BOC) Europaity =) A @ B@ C

Panity check Error	ir cheker	Educy for = 1 (Pain bit)  Vice-Verse  Odd  Panty Error = 1 (Pate + 1)  Panty Error = 1 (Pate + 1)  Panty bit  Panty bit  Panty bit  Panty bit
Data bit	Nice versa eun 1's	
ABC Party-in	Eveny	party Error
	00000	
Even parity Error = (ABBBCBP-in) off parity Error = ~ (ABBBCBP-in)		