Hom To design 1. Shift Register 2. Bidirectional register with parallel load

Software Ised; Model Sim

Theory of A register is a denice which is used to stock multiple bits of data. Shift register is a gewif of - register which can move dater within registers and infout of register by opplying clock pulses.

Snift register are of 4-lipes?

· Serial In Serial Out Register: The shift register which allows serial input & produces a serial output · is known as serial in serial out register. Since Have is only one output. The clata leaves the shift sugister one but at a time in serial pattern

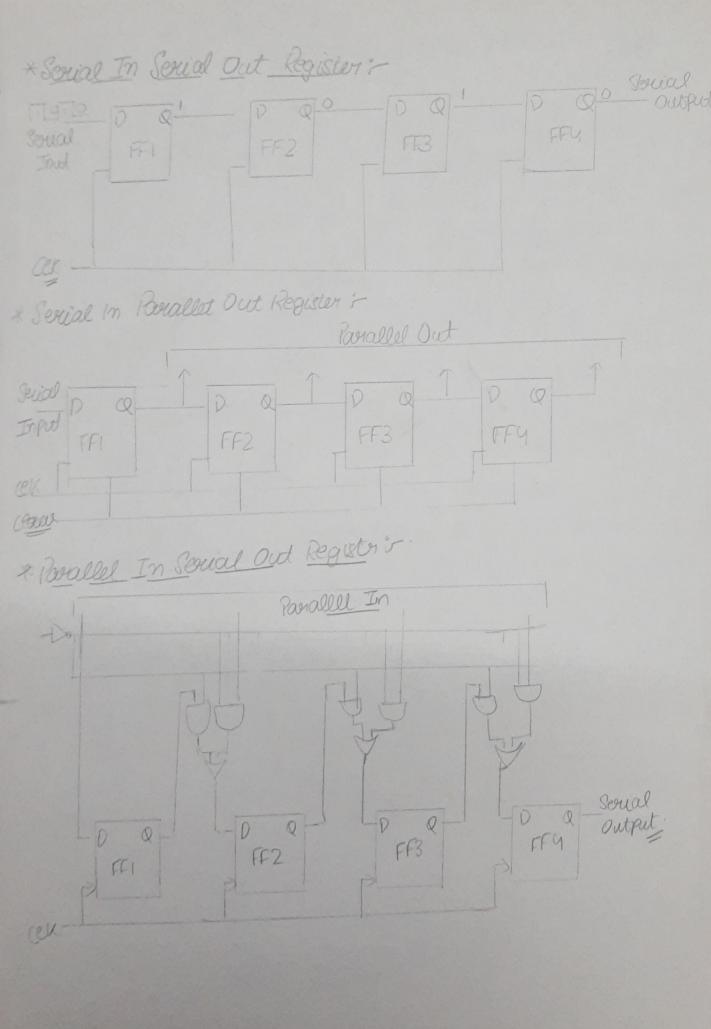
2. Seyal In Parablel Out Register. The Shift register which. allous serial imput à Produces a parallel output is known as secial in periallel ait shift register. The output of the first flip flop is connected to imput of next, flip flop & so on. All these flip flops our Egnchuonous with each other since scime clock is. applied to each flip flop.

3. Kuallel In Social Out Register :-The Shift register which allows panallel input & Produces Quial output is known as ravallel in Serial out registers. The clock is directly connected to all flip flops. The octivit of premions flipflop & parallel deta input are connected to mux & output is connected to ment flep flop.

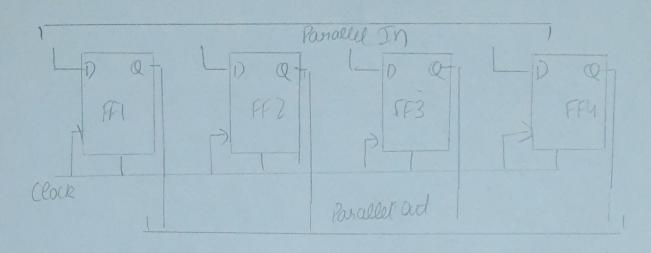
4. Parallel In Parallel Out Register;

The shift register which allows parallel input & also produces parallel output is known as parallel output is known as parallel in parallel out register. In this type of register there is no interconnection blu individual fly flops since no serial shifting of acta is required. Data is given as imput seperately for each flip flop and in Same way ordput is collected inclinichally from each flip flop.

Biduectional Shift Register with parallel load? Bidviectional shift register are register which are capable of shifting the data either right or left depending on the mode selected. If the mode selected is high (1), the data is shifted towards right direction & if mode selected is law (6), the doctor will be shifted towards left direction. The circuit consist of four Delip flops, the input data is connected at 2 ands of Circuit depending on the made selected only one and gate is in the active stall



* Parallel In Panallel Out?



* Bidirectional Register 5

