ASSIGNMENT 7 Wondershare Remove Watermark Objective: - Conversion of Flip flops. Problem Statement: Design and Realization
of flip flop conversion.

1. Conversion of TK flip flop to D flip flop
2. Conversion of TR flip flop to T flip flop

Hordware & Software Requirements:Digital Trainer KH, IC 7476, IC7474
; IC 7408, IC7432 & IC7404, patch conds +51 power supply

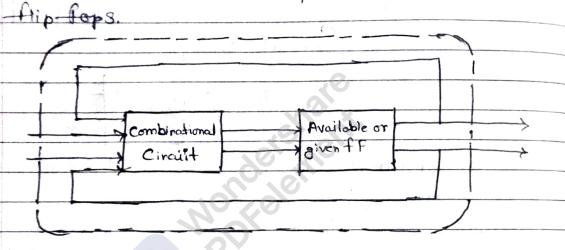
A flip flop is an electronic device which is having two stable states and a feedback path which is wed to store & bit of intermation by wing the clock signal.

Hence to say it simply, flip flops are

clocked. They are we to store only 7

bit of information and it can remain in the same states until the clock signal affects the state of the input. There are four types of Flipflops: 1. SR Flip flop 2. D Flip Flop 3. JR Flip flop 4. T Flip Flop There might be a situation where the less popular flip flops are required in order to implement a logic circuit. In order use the less popular flip-flot. SR Flip flop to Jk flip flop SR Flip flop to @ Flip flop SR Flip flop to T flip flop JR Flip flop to SR Flip flop JK Flip flop to D Filip flop @ Flip flop to SR Flip flop 1) Alip flop to JK Flip flop D Flip flop to T flip flop.

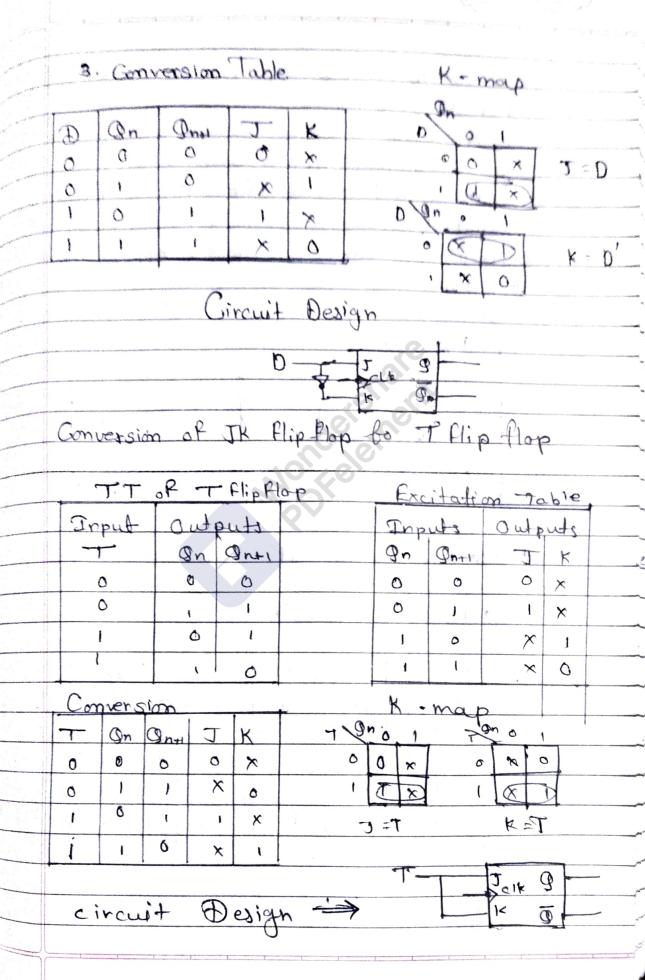
General model to convert one type of FI to other F:
In order to convert one-flip flop to other type of flip-flop, we should design a combinational circuit don't is compected to actual flip flop. Outputs of combinational circuit as some as inputs of available



1. Conversion of JK flip flop to D Flip flop.

TT. of D Flip flop Excitation Roble of JK

	Input	Ou	tput	Outputs		Input	
	D	(\$n	GnH	On	Qn+1	J	K
	0	0	0	0		٥	×
	0		Q	0	1)	×
		0	1	1	0	×	1
		<u>+</u>	1	- 1	ľ	X	0
1	-			 -			



Conclusion: Thus we have studied conversion

