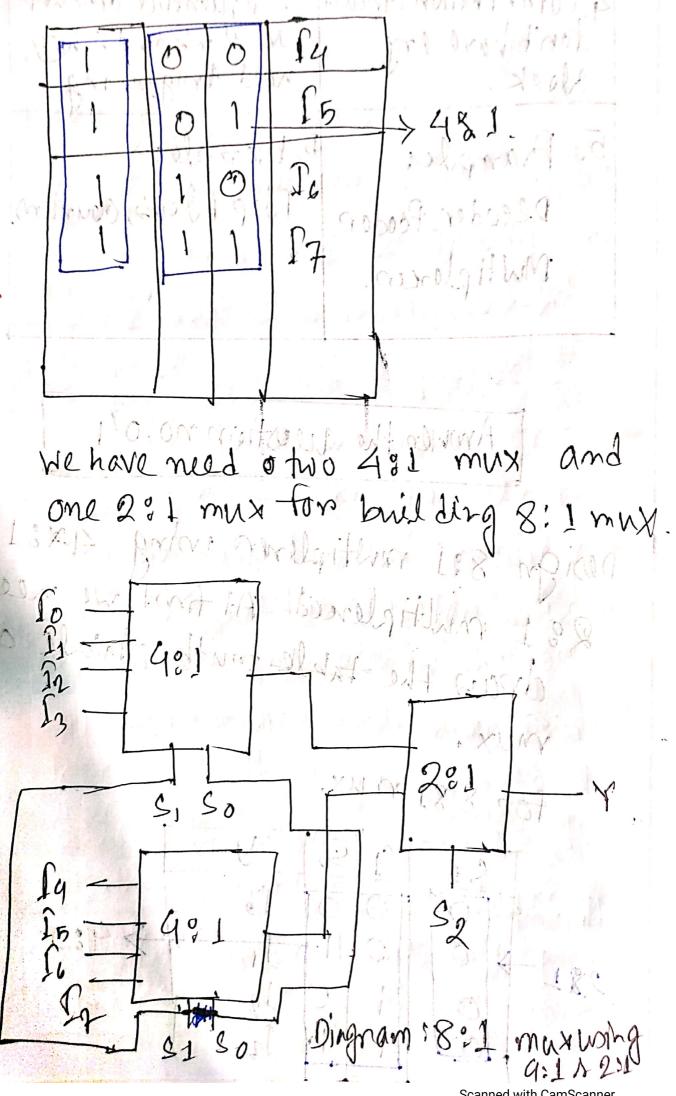


## Amwerthe question: 03

the différencies between Sequential ain à combinational cincuit la discurse diblow.

combinational circuit	sequential circuit
1. In combinational	2. In sequential circuit
Cincuit the output	The output of the
deplads on the	Circuit not only
present imput.	depends on the current
We dan call the	Input but also depends
output as indepen-	on the polvious
-dent became of	output.
giving output baned	the circuit
imput on the device	2. In this Cast. It
	hase take account
2. As the corrent instant is required	on the poerions
idustanter and better	in consideration. So shower
3. It has no capabili	of 3. It has the capacity
to state any data	to stone the State
Dial Control	Marchiel Disconnection

4. Combination circuit 4. Soquential direction don't have any has dickaret hey need triggering.
5. Example: B. Example:>
Deeoder Ecoden, Flip Flops, counters. Multiplemen.
Amwen the question no:04
in 1:2 acid live of the stand of a second
Design 8:1 multiplener wring 42:1 and 2:1 multiplened. At first we need to
draw the table touth. table of the
mux.
for 881 mux,
S2   S0   9



Scanned with CamScanner

The short circuit the 31 8 28 fore
two mux 481 then both them works
for 00,01,10,11. If we solvet
oo then so, will be solveted then
Doe select the SQ = 0 the flow To
whe show as output and SQ = 01
then the sq will be shown as
output.

Amwen the guestion no:05

At the time of designing a negosles file with multiple registers, we me multipleness to nead data from specific registers wing the selection bit of the multipleness. But, there need to store some data to the negisters, so need a component to add data to specific registers. It

Contre done wing De-Multiplierers, Where it has a Input signal with n selection lines and maximum of 2n outputs · But we didn't use de-multiplenes became the de-m multiplien has the teature to send data to specific line with the other line make zero. If you send data-through Mux, it will Send the output to the specific neglotes but make all the reguster value to zoo. To when some one selects the selection bit the Mux will send data that through Poon so on aything but also send data 2 2 eno to other negloder and neplace the peneriously stone values. Me-multiplenum has not the about by to Control neglotens ex separately so, we

une decoder instead of De-multiplemen.

Amuen the question no: 06

part of the for the part of

In our designed register file, we can read one data at a time which is med tors developing single cycle datapath. If we want to write two desta a. Hme then we need pipelining: Where multiple process can execute at a time. This negister is bad bosed I must ale temporary neglotens-while multiple data can be stoned in the same time this negloter tile vo

med in designing multicycle datapath.

So, it is the best way to use multi-regular on temponary negester in multi-cycle datapath to stone multiple data a minimum.

7.9 For ids 1620847042

CALL MAN DE PARTY OF THE DW TH	
Valle of neth neground Before running 1 After running	1
Value of on 1 en was Betone punning After running in	othu-,
Instruction and mening After running in	St- 1
WE TO THE TOTAL OF	
Marking to the second s	
Value of 57 houghten Ro. 6=8 Punning Attennunning in	U4:
0-0	
Value of votingular Betore numing After numing 1	
Institute of the sunning of the numing of	wt.
Value of 8things & Before running After running D.	i i
Ind. d= of After running In	1
Inot. a= of Junning Ino	
NAME OF 8th Botone Dunda No	
register Before nurring After nurring In	VI.
e = 4	
5-9	4
0 —	
Name of 8th Before puring After running In negotier e=4 2=5	V)1.