

## Verilag Madule

- · Should be enclosed within module and endmodule

  · Name of module should be given right after

  the module keyword and an explicanal vist of

  parts may be declared as usel.
  - cannot be redoctated within the boody of the

mædule < name> ([pour\_list]);

stand the or many states the first of the second

11 contents

endmadule

· You cannot have any code univer outside

Ex- D-frip flop.

 $d \rightarrow dff \rightarrow 2$   $dk \rightarrow dff \rightarrow 2$ 

module diff (input d, input clk,

ingut som,

output reg q,);

always @ (pasadge clk) begin

if (128m)

94=10;

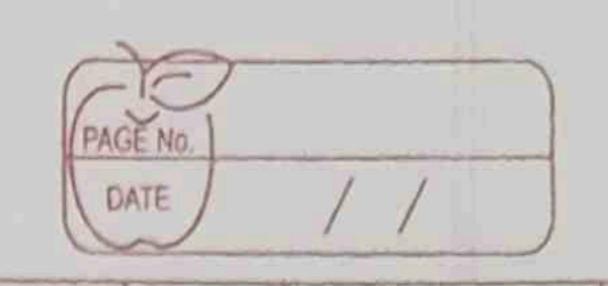
else

9 <=d;

endmadule

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22000 1 million to the second



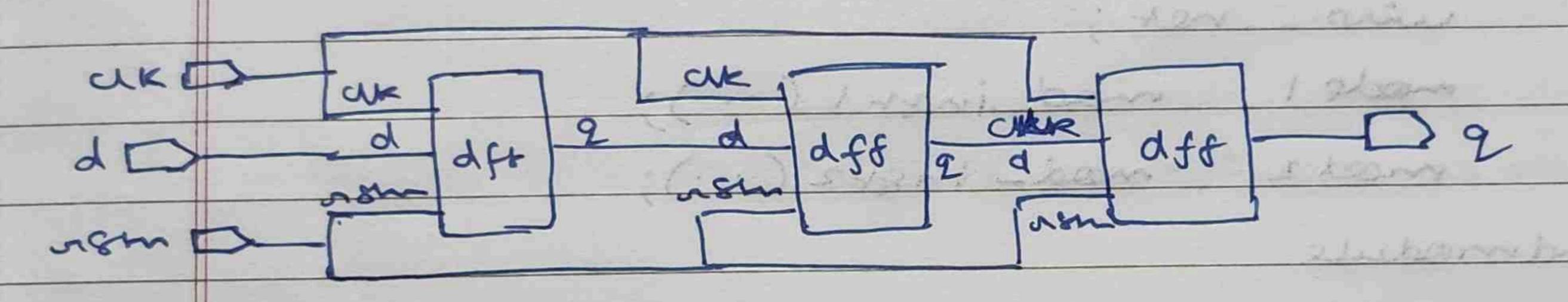
Purpose:

Madule rapresents a design unit that implaments certain benowiam characteristics and will get conversed into a digital circuit during symmetis Any combination of inputs can be given to the madule and it will provide a corresponding auput.

· Anous the same madule to be reused to your bigger modules that implement more complex hardware.

ex- com se unained to form a shipt negisteer.

plantamen, marine, again Sa.



Top- level module for example, Sub mædules like mæd 3 inside mæd I and mæd 4 inside mæd 2 Anyhow au mose are included in the top level woodule when mod! and mod? are instrumiated. in madule designs.

module mad 3 ([port\_ list]); req C; endnædule.

i ([18in\_mag]) skem studen uriage as in the second of the

and module.

Indiana in July and Aland Maria Amagine and Teacher's Signature:.....

What I from the world to be the

mædule mæd! ([port\_list]); mine y; mood 3 mood - house ( ... ); mood 3 mood \_ in 8+2 (..); endmadule. mædule mæd 2 ([part - list]); mead 4 mod - in 84 1 ( ...); mod 4 mod\_inst2(..); endmadule Top level madule mædule design ([part\_list]); wire - nat; mad\_inx+1 (...); meed 2 mod - : n8+2 (...); suppor bours took bouch top lovel The design is instantiated and called to inside the tesmoench madule. get in the december of the manual and the second module testhench; design de [[port-vist-connections]]; eluborn brue Internal a description of the second Heinancial names design, mad\_inst 1 // access madule Ingrance I for which has a solution of the first of the solution of nad\_inst! design. mod\_in8r1.y // access signal"y" inside 1 reni-been design. mod\_inst2.mod\_inst2.a

Maccess signed "a" unimin mood a madule

test beach. do. - net;

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