Pulse Width Modulation (PWM) (Maria de
count co authorize
etons (OUH and down)
< period ->
: To vary the duty cycle (Ton + Tott) by varying the
ton herrod after the gives clock cycles.
Code:
timescele Ins/1pc]
module pum (input clk, rst, output vieg dont);
parameter fund 2 100; // Taking 100 as the total fund
integer count =0; 11 To maintain the hulse width
untiger ton 20, 11 to the value of on time.
reg nc 1150; Il Joshow there via new cycle glar
11b0:
always @ Gosedge clk) begin jo fall back viewers after
if (rest 2 2 11b1) begin completion of mention time
count = 0; / 1/20 maintain the seese
ton 2= 0;
mc (= t/b0;

else begin siege () still a still all still and still all still a sti
it (count 2 2 ton)
begin II to maintain the ton
count = count +1; It is of the dout from.
dout = 11b1;
nc (= 11b0;
end
else it (court & period) begin 7/11 To maintain the
count / Count 1)
dont = 1160; dont pin
dout = 1160; dont fin
• · · · · · · · · · · · · · · · · · · ·
end !
else begin 2 11 After the completion of 1 cycle
(= 111) havanthe ton seme
count (=0; maintain a variable
end
All Jend 1
end begin
always @ (hose age clk) begin & maintening the conditions only if
a protout & There 4
new yelle.
begin Legin (Key = 0; Conditions when down
if they are the
Key (=0; Conditions when don't complete 0 -> 100 Eq
ton (=0; complete 0 -> 100 Eq
iend. ton (=0; Complete 0=100-10)
ieng.

else if (key: , o && to	ne fremod) begin
key (= 0; ton (= ton +.	I II their happens when the key value is a where
else begin	Azrai
key (=1; ton, ton-5;	100 Eque are toraresing back to again o ton period where are reversing back.
end	
فعا	يد ٧٠٠٠
end is in time with 13) 11 %	
rendrile	
Required 0 p:	June 20
This is how we want	to. varythe shulse widt of the et & varying value. Love it (100 &
system cuper ource	at Equarying value. Love et (100 4
Basii usage : At	to Brightness of LED.
phoetical months	Ilsed in mertons by varying the ve of fromer optimization.
· Hor the main cause	of hower optimization.