Daily Assessment Format

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Course: Digital design using HDL

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Topic: EDA playing

Github
  repository: jyoti-course

forenoon session details

Report

what is EDA playground?

EDA playground gives engineers immediate hands-on exposure to simulating system verilog, verilog VHDL, C++, system c, & other HDLs. All you need is web browser. the goal is to accelerate learning of design/ testbench development with easier code sharing & simpler access to EDA tools & libraries. with a simple click, Run your code & see console output in real time. view waves for your simulation using EPwave browser-based wave viewer. save your code snippets perfect for web forum discussions. or emails great for asking questions or sharing your knowledge. Quickly try something out try out a language. feature with a small ex: tryout a library that you're thinking of using, example use cases Quick prototyping -Try out syntax or library/ language feature. when asking questions on stack overflow or other online forums attach a link to the code & simulation results. use during technical interviews to test candidates system verilog/ verilog coding & debug skills. try verifying using different verification frameworks. UVM, Svunit, plain verilog or python. tools & simulators for setting and options documentations. see tools & simulators options. Available tools & simulators are below. EDA playground can support many diff tools. Contact us to add your EDA tool to
EDA playground

How to download & install xilinx vivida design suite
- go to www.xilinx.com
- select which we need to download
- sign in & download

4:1 MUX

```verilog
module and_gate (output a, input b, c, d);
assign a = b & c & d;
endmodule

module not_gate (output q, input e);
assign e = ~q;
endmodule

module or_gate (output i, input m, n, o, p);
assign i = m | n | o | p;
endmodule

module m4to1 (out, a, b, c, d, S0, S1);
output out;
input a, b, c, d, S0, S1;
wire Sobar, S1bar, T1, T2, T3;
not_gate u1(S1bar, S1);
not_gate u2(Sobar, S0);
and_gate u3(T1, a, Sobar, S1bar);
and_gate u4(T2, b, S0, S1bar);
and_gate u5(T3, c, Sobar, S1);
and_gate u6(T4, d, S0, S1);
or_gate u7(out, T1, T2, T3, T4);
endmodule
```

Testbench code

```verilog
module Top;
wire out;
reg a, b, c, d;
reg s0, s1;

m4to1 name(.out(out), a(a), .b(b), .c(c), .d(d), .s0(s0), .s1(s1));
initial
begin
a=1'b0; b=1'b0; c=1'b0; d=1'b0;
s0=1'b0; s1=1'b0;
#500 $finish;
end

always #40 a=~a;
always #20 b=~b;
always #10 c=~c;
always #5 d=~d;
always #80 s0=~s0;
always #160 s1=~s1;

always@(a or b or c or d or s0 or s1)
$monitor("At time=%.f, output=%d", $time, out);
endmodule
```

Afternoon session details

Report

Scrape real estate property data from the web
There was a time when real estate dealings were discrete
paper-based operations done on a one to one basic. with the
Rise of the internet. & every industry finding its way to
it. real estate began to realize its true potential on the
web. there is no denying the fact that the internet is the
most useful tool at a seller's disposal. with a large no of
potential buyers online, realtors find the internet an excellent
source to advertise property listings. hereby automating
the whole process. statistics suggest that 40% of buyer's
inquiries stem from internet advertisements & nine out of ten
people use the internet to search for property. Moreover, the same
property can be enlisted on numerous sites to increase traffic
& the corresponding chance of a sale. this implies endless
opportunities for a realtor. but harnessing relevant data out of
big data to a non-technical realtor is like looking for a needle
in haystack. the web has a staggering amount of information
Leading to a plethora of choices & comparisons can lead to
significant confusion, making it difficult to fathom & make
sense of. web scraping in Real estate to the rescue web scraping
is the process of soiling through overwhelming amounts of data
Refine the user's searches & provide a list of relevant
information. in realtor's case, it is the go-to tool for organized
property listings. scraping is the web provides parameters
which the realtor can further study to determine sales &
prospective buyers.