

DAILY ASSESSMENT REPORT

Date:	04/06/2020	Name:	Abhishek
Subject:	Digital Design Using HDL	USN:	4AL17EC001
Topic:	1] Hardware modelling using verilog 2] FPGA and ASIC Interview questions	Semester & Section:	6 th 'A'
Github Repository:	Abhishek-online-courses		

FORENOON SESSION DETAILS

Image of session

Moore's Law

- Exponential growth
- Design complexity increases rapidly
- Automated tools are essential
- Must follow well-defined design flow

HARDWARE MODELING USING VERILOG by I...
41 videos · KNOWLEDGE TREE

Lecture 1 Introduction to Hardware Modeling using verilog by IIT KHARAGPUR
1 lakh views · 2 years ago

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Comments 19

1.25x is good

Report

Hardware modelling using verilog :

- Learnt about the verilog hardware description language.
- Understand the difference between behavioural and structural modelling styles.
- Learnt to write test benches and analyse simulation results.
- Learnt to model combinational logic circuits.
- Distinguish between good and bad coding practices.
- Case studies with some complex designs.

Task (DAY - 4)

Implement a simple T Flipflop and test the module using a compiler.

Verilog Code:

```
module t_ff (t,q,clk);  
input  t,clk;  
output reg q = 0;  
  
always @ (posedge clk)  
begin  
    if (t==1)  
        begin  
            q=~q;  
        end  
end
```

else

begin

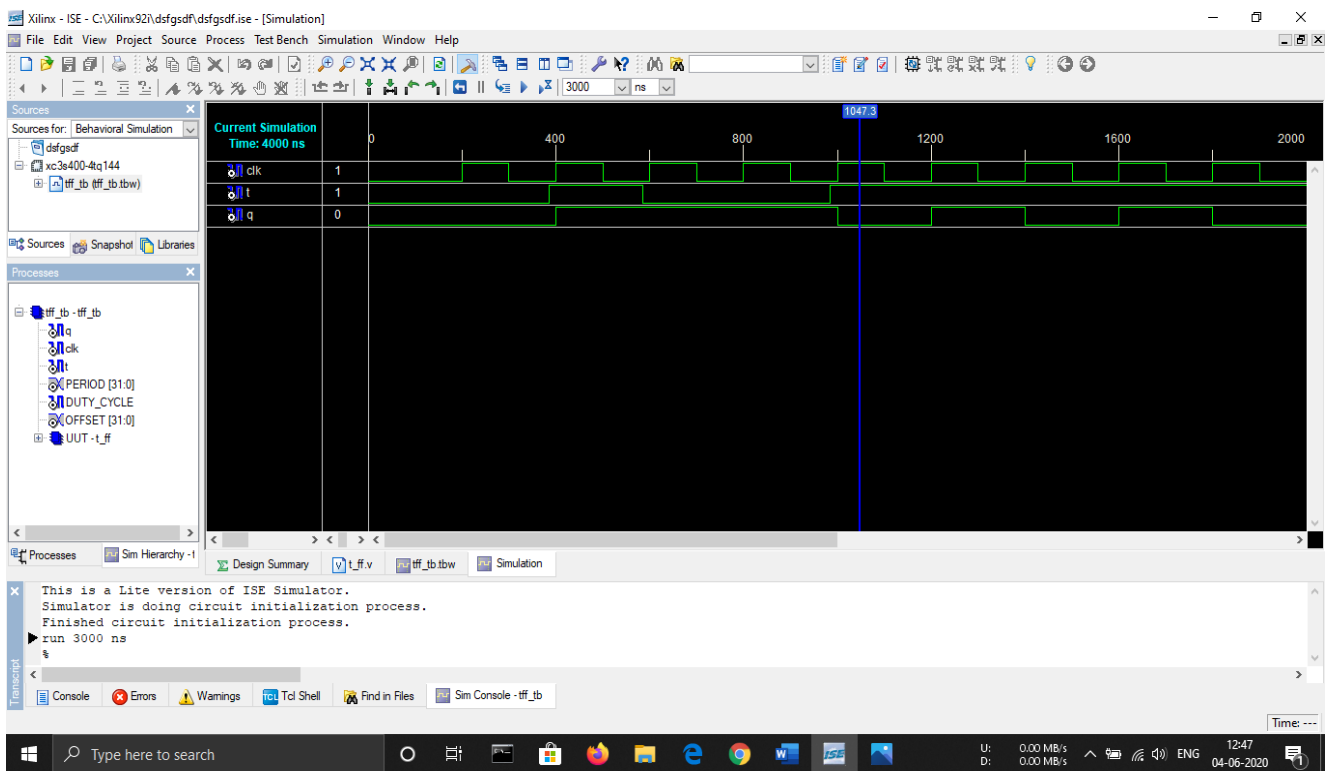
q=q;

end

end

endmodule

Compiler Output:



Date:	04/06/2020	Name:	Abhishek
Course:	The Python Mega Course: Build 10 Real World Applications	USN:	4AL17EC001
Topic:	1] Application 8: Build a Web-based Financial Graph	Semester & Section:	6 th 'A'

Github Repository:	Abhishek-online-courses		
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AFTERNOON SESSION DETAILS

Image of session

```

File Edit View Selection Find Packages Help
mysite
├── Demo
│   ├── static
│   └── templates
│       ├── about.html
│       ├── home.html
│       ├── layout.html
│       └── plot.html
├── script1.py
├── virtual
│   ├── Include
│   ├── Lib
│   └── Scripts
│       ├── pip-selfcheck.json
│       └── pyvenv.cfg
└── ...

script1.py
1  {%extends "layout.html"%}
2  {%block content%}
3  <link rel="stylesheet" href="{{cdn_css | safe}}" type="text
4  <script type="text/javascript" src="{{cdn_js | safe}}"></sc
5
6  <div class="about">
7      <h1>My about page</h1>
8      <p>This is a test website again</p>
9  </div>
10 {{script1 | safe}}
11 {{div1 | safe}}
12 {%endblock%}
13

plot.html
40 p.rect(df.index[df.Status=="Increase"],df.Middle[df.Status=="Incr
41 hours_12, df.Height[df.Status=="Increase"],fill_color="#CD
42
43 p.rect(df.index[df.Status=="Decrease"],df.Middle[df.Status=="Decr
44 hours_12, df.Height[df.Status=="Decrease"],fill_color="#FF
45
46 script1, div1 = components(p)
47 cdn_js=CDN.js_files
48 cdn_css=CDN.css_files
49 return render_template("plot.html",
50 script1=script1,
51 div1=div1,
52 cdn_css=cdn_css,
53 cdn_js )
54
55
56

layout.html
response = self.make_response(rv)
File "D:\Dropbox\pp\finance\Demo\mysite\virtual\lib\site-packages\flask\app.py", line 1566, in make_response
raise ValueError('View function did not return a response')
ValueError: View function did not return a response
127.0.0.1 - - [04/Apr/2016 14:49:33] "GET /plot/?_debugger__-yes&cmd=resource&f=style.css HTTP/1.1" 200 -
127.0.0.1 - - [04/Apr/2016 14:49:33] "GET /plot/?_debugger__-yes&cmd=resource&f=jquery.js HTTP/1.1" 200 -
127.0.0.1 - - [04/Apr/2016 14:49:33] "GET /plot/?_debugger__-yes&cmd=resource&f=debugger.js HTTP/1.1" 200 -
127.0.0.1 - - [04/Apr/2016 14:49:34] "GET /plot/?_debugger__-yes&cmd=resource&f=ubuntu.ttf HTTP/1.1" 200 -
127.0.0.1 - - [04/Apr/2016 14:49:34] "GET /plot/?_debugger__-yes&cmd=resource&f=console.png HTTP/1.1" 200 -
127.0.0.1 - - [04/Apr/2016 14:49:34] "GET /plot/?_debugger__-yes&cmd=resource&f=console.png HTTP/1.1" 200 -

```

Stock Market Analysis

This is just a Test Website.

Candlestick Chart - TCS



Report

Application 8: Build a Web-based Financial Graph

- Python script to plot stock market data using bokeh library and deploy the bokeh plot to a live website.
- A ticker symbol or stock symbol is an abbreviation used to uniquely identify publicly traded shares of a particular stock on a particular stock market. A stock symbol may consist of letters, numbers or a combination of both. "Ticker symbol" refers to the symbols that were printed on the ticker tape of a ticker tape machine.
- Some of the examples are:
 - ✓ NYSE (New York Stock Exchange) uses the ticker symbol with 3 letters or few – such as 'NYT' for the New York Times Co. or 'T' for AT&T.
 - ✓ Symbols with 4 or more letters generally denote securities traded on the American stock exchange and NASDAQ.
 - ✓ Those ending in 'X' indicate mutual funds.
 - ✓ There are also certain symbols that denote specific status or type of security say, tickers ending in 'Q' indicate issuers which are under bankruptcy and letter 'Y' denotes security is an ADR.
- Some of the functions used under bokeh library:
 - ✓ It is possible to ask Bokeh to return the individual components of a standalone document for individual embedding using the **components()** function under **bokeh.embed** module. This function returns a <script> that contains the data for your plot, together with an accompanying <div> tag that the plot view is loaded into. These tags can be used in HTML documents however you like.
 - ✓ The **resources** module provides the Resources class for easily configuring how BokehJS code and CSS resources should be located, loaded, and embedded in

Bokeh documents.

- ✓ Additionally, functions for retrieving Sub resource Integrity hashes for Bokeh JavaScript files are provided here.
- ✓ Content delivery network (CDN): Load minified BokehJS from CDN.