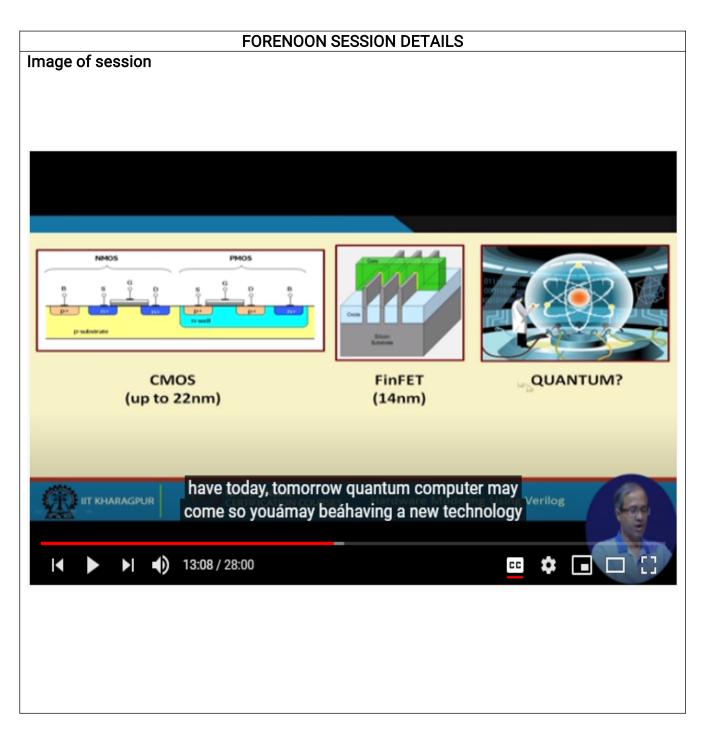
DAILY ASSESSMENT FORMAT

Date:	4/06/2020	Name:	Akshatha M Deshpande
Course:	DIGITAL DESIGN USING HDL	USN:	4AL17EC006
Topic:	Hardware modelling using verilog,FPGA and ASIC Interview questions	Semester & Section:	6th Sem A sec
Github Repository:	AkshathaDeshpande		



Report - Report can be typed or hand written for up to two pages.

VLSI DESIGN FLOW:

- 1. Standardized design Procedure.
- 2. Starting from the design idea down to the actual implementation.
- 3. Encompasses many steps:
- Specification
- Synthesis
- Simulation
- ◆ Layout
- Test ability Analysis

VLSI DESIGN PROCESS:

- 1. Design Complexity increasing rapidly:
- Increased size and complexity
- ◆ Fabrication Technology improving
- ◆ CAD tools are essential
- ◆ Conflicting requirements like area, speed and energy consumption.
- 2. The present trend:
- Standardize the design flow
- Emphasis on low power design, and increased performance.

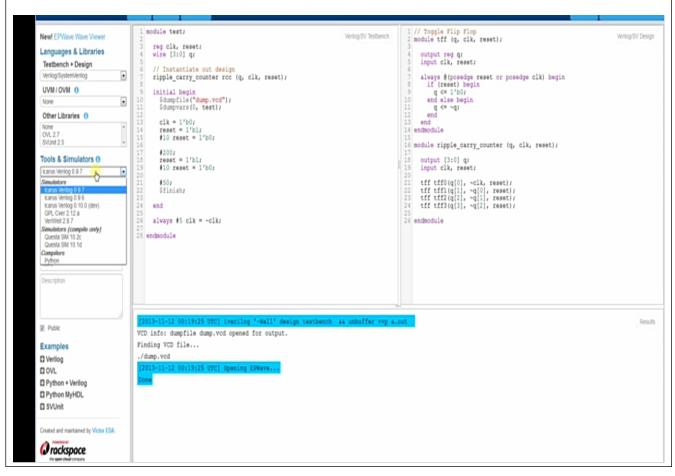
Implement a simple T Flipflop and test the module using a compiler:

```
module tff ( input clk, input rstn, input t, output reg q); always @ (posedge clk) begin if (!rstn) q <= 0; else if (t) q <= \sim q; else q <= q; end endmodule
```

Test bench:

```
$monitor ("T=%0t rstn=%0b t=%0d q=%0d", $time, rstn, t, q);
repeat(2) @(posedge clk);
rstn <= 1;
for (integer i = 0; i < 20; i = i+1)
begin
reg [4:0] dly = $random;
#(dly) t <= $random;
end
#20 $finish;
end
endmodule
```

Picture:



Date: 4/06/2020 Name: Akshatha M Deshpande

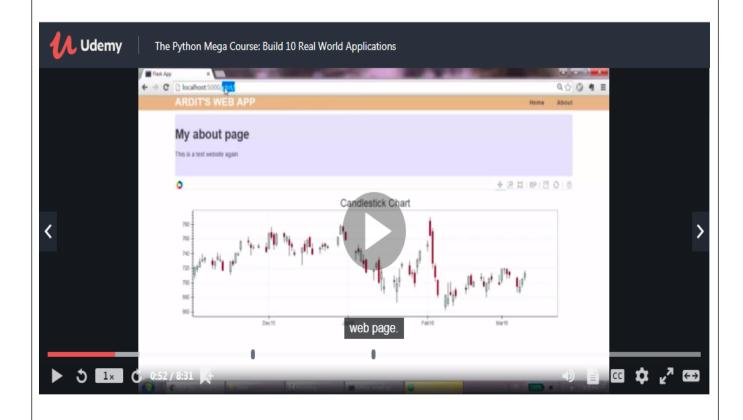
Course: Python USN: 4AL17EC006
Topic: Application 9: Build a Semester & Section: 6th Sem A sec

Web-based Financial

Graph

AFTERNOON SESSION DETAILS

Image of session

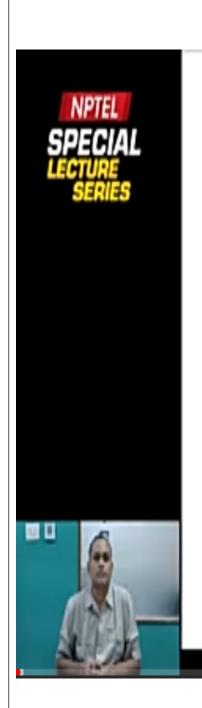


Report – Report can be typed or hand written for up to two pages.

Application 9: Build a Web-based Financial Graph:

- ◆ Web-based Financial Graph How The Output Will Look Like
- Downloading Datasets with Python
- Stock Market Data
- Stock Market Data Candlestick Charts
- Candlestick Charts with Bokeh Quadrants
- Candlestick Charts with Bokeh Rectangles
- Candlestick Segments
- Stylizing the Chart
- ◆ The Concept Behind Embedding Bokeh Charts in a Flask Webpage
- Embedding the Bokeh Chart in a Webpage
- Deploying the Chart Website to a Live Server

Date:	4/06/2020	Name:	Akshatha M Deshpande
Course:	Bonus lecture on electrical	USN:	4AL17EC006
	engineering		



What is Electrical Engineering?

S. Aniruddhan

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3 June 2020

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