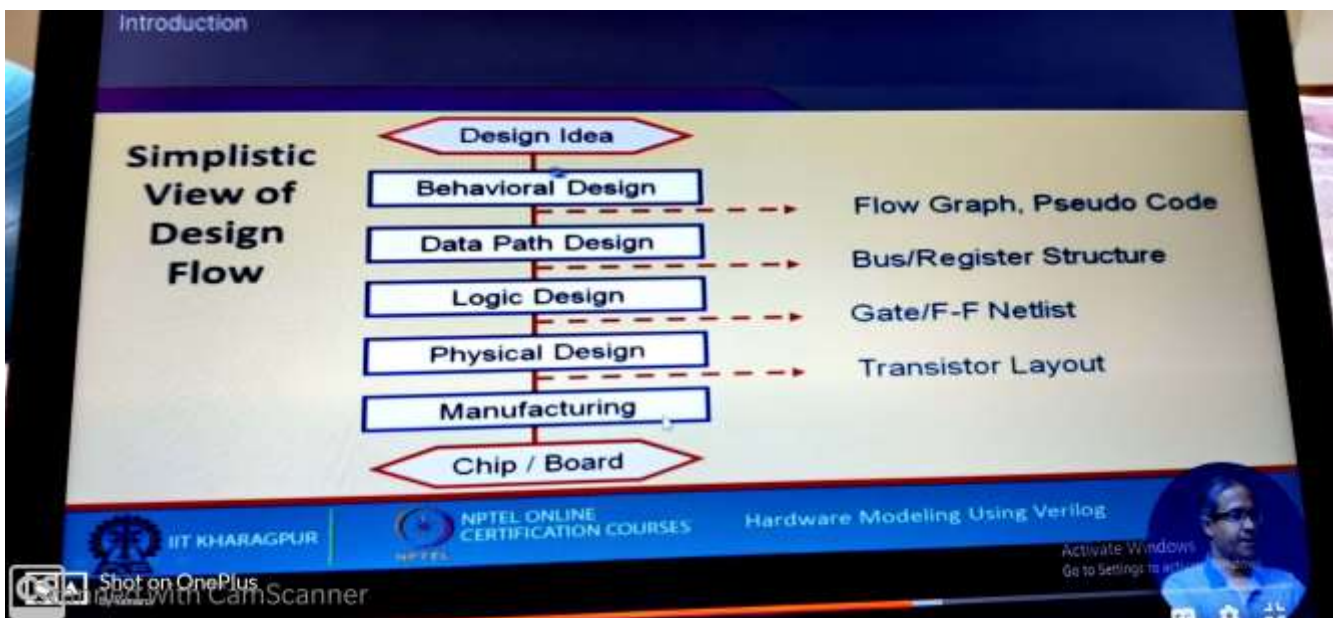
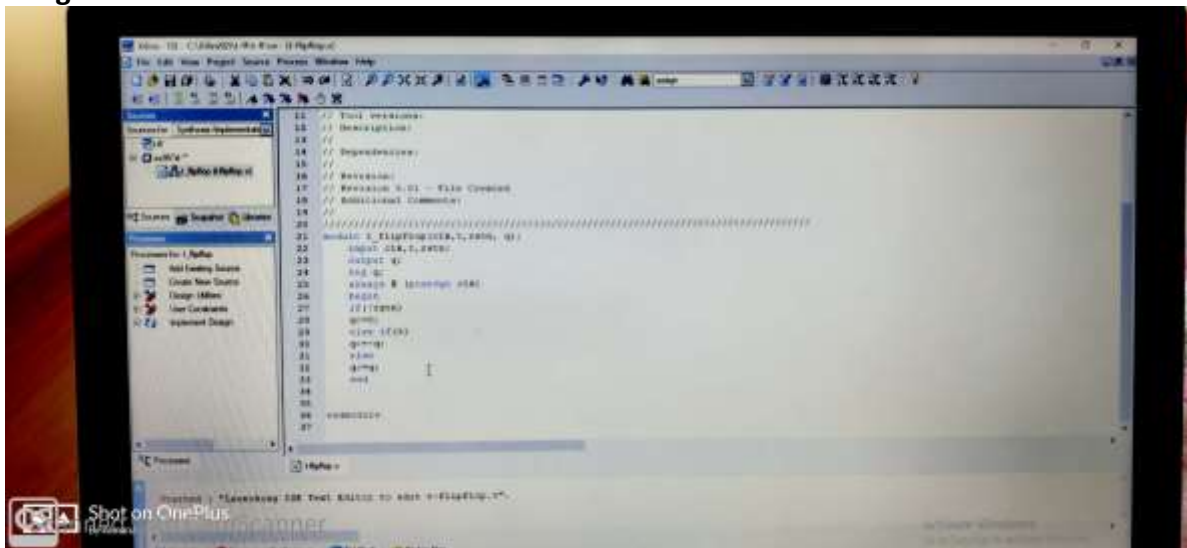


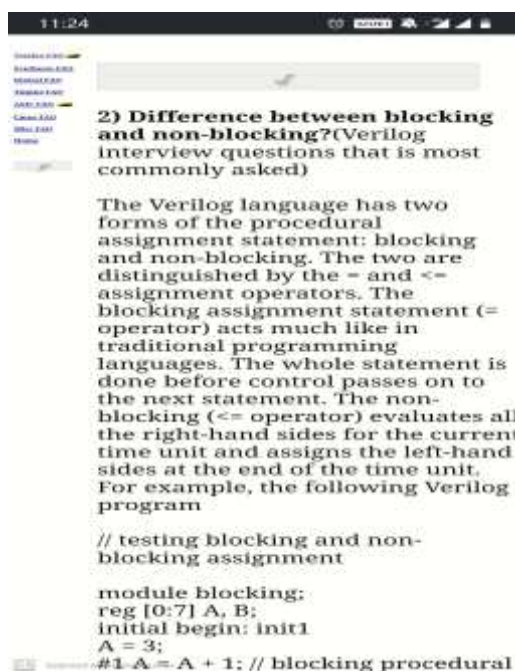
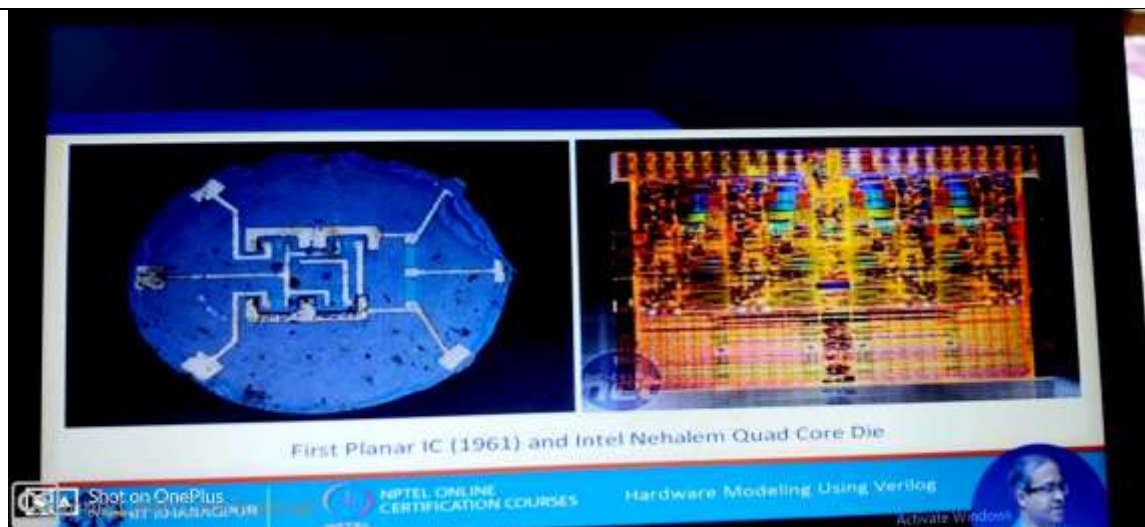
DAILY ASSESSMENT FORMAT

Date:	04 june 2020	Name:	Pooja K S
Course:	HDL	USN:	4AL17EC070
Topic:	Hardware modelling using Verilog FPGA and ASIC interview questions	Semester & Section:	6 TH SEM B SEC
Github Repository:	pooja-shivanna		

FORENOON SESSION DETAILS

Image of session





Hardware Modelling using Verilog

Day 1

VLSI Design Process

* Design Complexity increasing rapidly

→ increased size and complexity

→ fabrication technology improving

→ CAD tools are essential

→ Conflicting requirements like area, speed and energy consumption

Moore's Law

Exponential Growth

Design complexity increases rapidly

Automated tools are essential

Must follow well-defined design flow.

VLSI design flow

Standardized design procedure

→ Starting from the design idea down to the actual implementation.

Encompasses many steps:

→ specification

→ Synthesis

→ Simulation

→ Layout

→ Testability analysis

Need to use Computer Aided Design (CAD) tools:

→ Based on Hardware Description Language.

→ HDLs provide formats for representing the output

Various design steps

→ A CAD tool transforms VHDL input into a HDL output that contains more detailed information about the hardware.

Blocking and non-blocking

Task Day 1:

Implement a simple T flip flop and test the module using a compiler

```
module tff (input clk, input 2inreg, input t, output reg q);
```

```
always @ (posedge clk)
begin
```

```
if (!rstn)
```

```
q <= 0;
```

```
else
```

```
if (t)
```

```
q <= ~q;
```

```
else
```

```
q <= q;
```

```
end
```

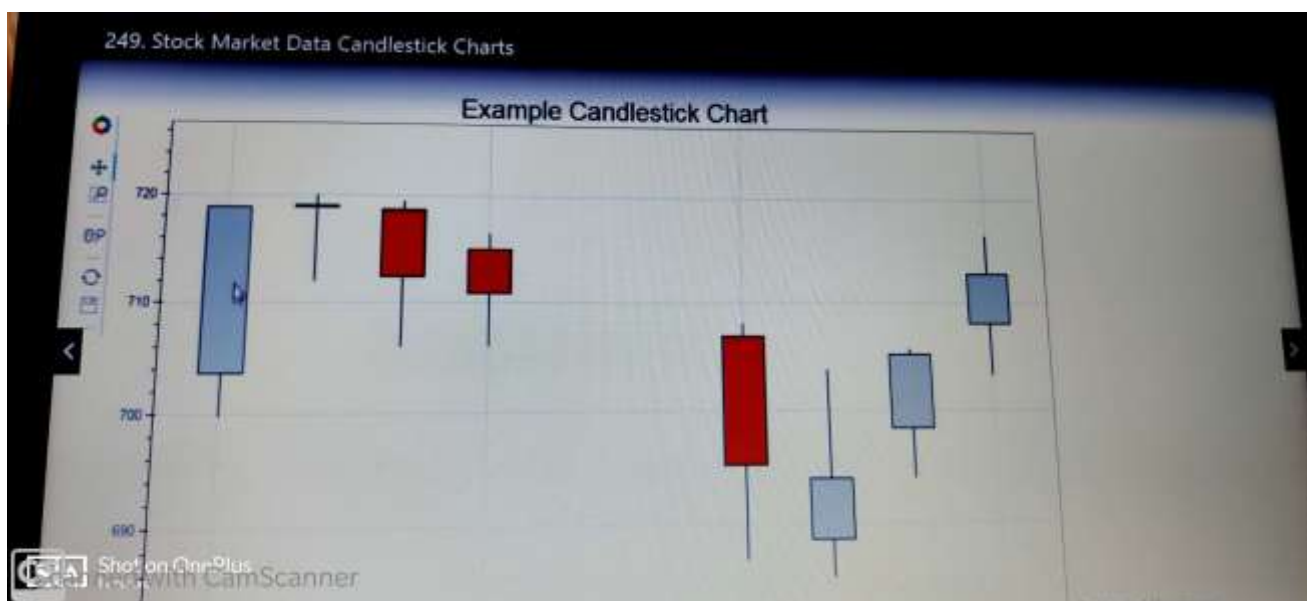
```
endmodule
```

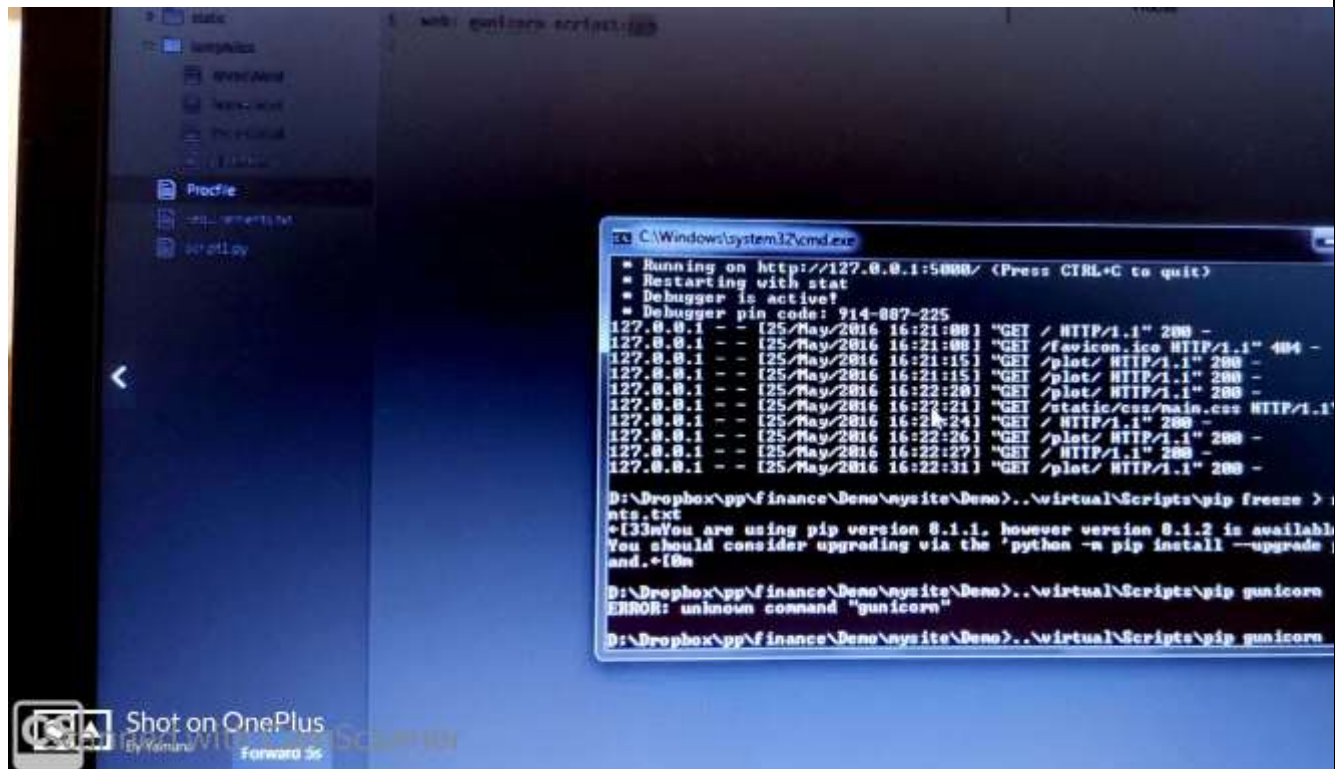
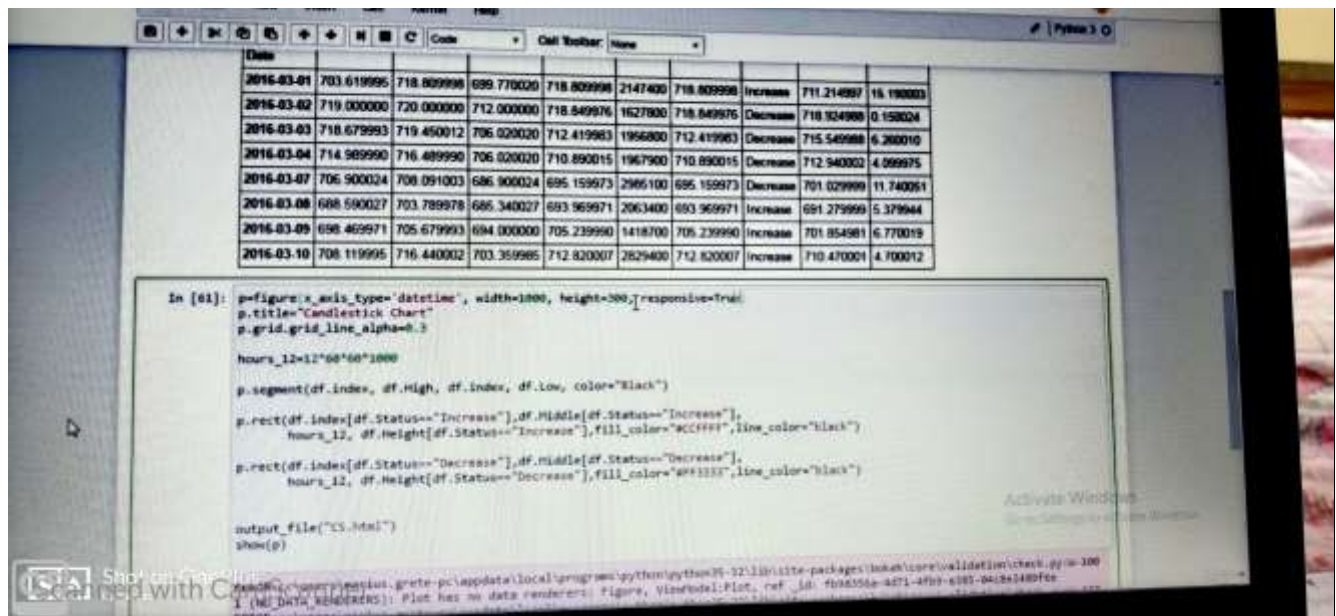
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Date:	04 june 2020	Name:	Pooja K S
Course:	Python Programming	USN:	4AL17EC070
Topic:	Application 9: Build a web-based financial graph	Semester & Section:	6 th sem B sec

AFTERNOON SESSION DETAILS

Image of session





Application Q:- Build a Web-based Financial Graph

Day 16

Downloading Datasets with Python:-

```
from pandas_datareader import data  
import datetime
```

```
start = datetime.datetime(2016, 3, 1)
```

```
end = datetime.datetime(2016, 3, 1)
```

```
data = DataReader(name = "AAPL", data_source = "yahoo", start = start, end = end)
```

```
from flask import flask, render_template
```

```
app = Flask(__name__)
```

```
@app.route('/')
```

```
def home():
```

```
    return render_template("home.html")
```

```
@app.route('/about/')
```

```
def about():
```

```
    return render_template("about.html")
```

```
if __name__ == "__main__":
```

```
    app.run(debug=True)
```

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59. PostgreSQL Database Web App with Flask: Steps

Collecting heights

Please fill the entries to get population statistics on height

Submit

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