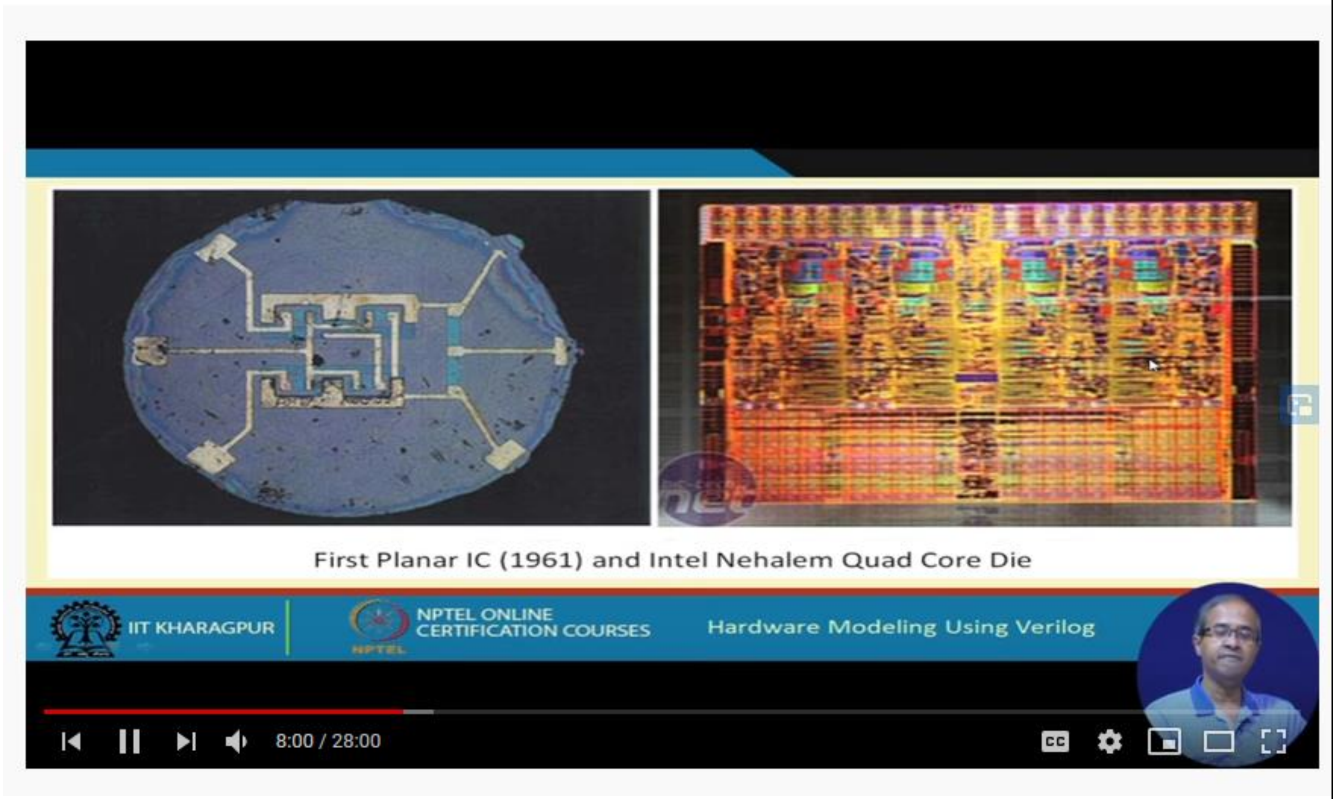
DAILY ASSESSMENT FORMAT

Date:	**04/06/2020**	**Name:**	**Nishanth**
Course:	**DIGITAL DESIGN USING HDL**	**USN:**	**4al17ec063**
Topic:	1.Hardware modelling using Verilog 2.FPGA and ASIC Interview questions	**Semester & Section:**	**6th b-section**
GitHub Repository:	**nishanthvr**		

FORENOON SESSION DETAILS

Image of session



First Planar IC (1961) and Intel Nehalem Quad Core Die
IIT KHARAGPUR
NPTEL ONLINE CERTIFICATION COURSES
Hardware Modeling Using Verilog
8:00 / 28:00

Verilog interview Questions & answers for FPGA & ASIC.

Ex:
Write a verilog code to swap contents of two registers with and without a temporary register?

With temp reg ;

always @ (posedge clock)
begin

```
temp=b;
b=a;
a=temp;
end
```

Without temp reg;

```
always @ (posedge clock)
begin
a <= b;
b <= a;
end
```

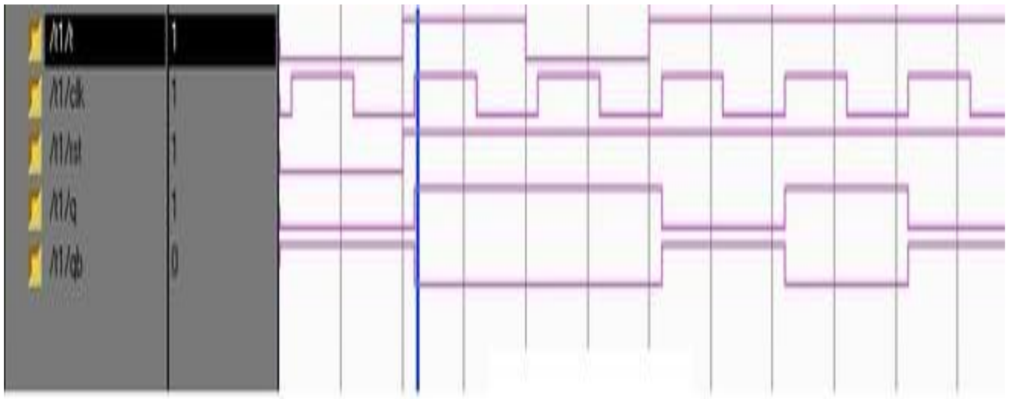
Task :

```
module tff(t,clk,rst, q,qb);
input t,clk,rst;
output q,qb;
reg q,qb;
reg temp=0;
always@(posedge clk,posedge rst)
begin
if (rst==0) begin
if(t==1) begin
temp=~ temp;
end
else
temp=temp;

end

q=temp;qb=~temp;
end

end module
```

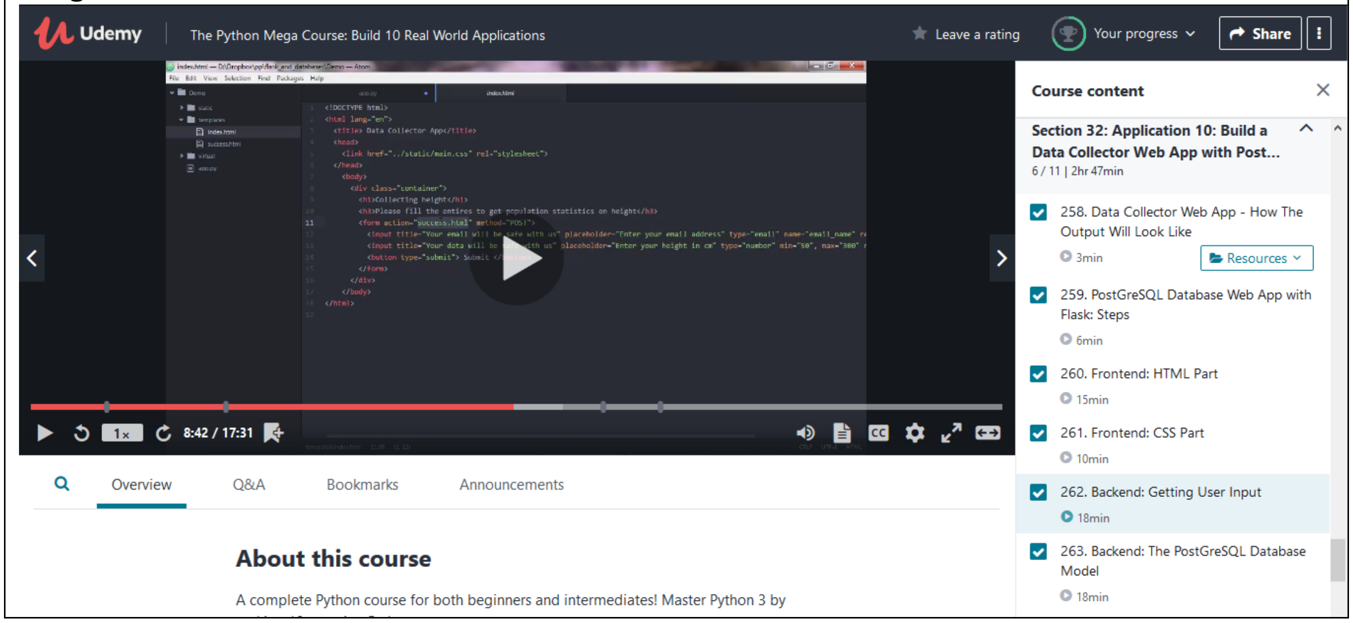


Date: **04/06/2020** **Name:** **Nishanth**

Course:	**Python Application 9: Build a Data Collector Web App with PostGreSQL and Flask**	**USN:**	**4al17ec063**
		Semester & Section:	**6th and b section**

AFTERNOON SESSION DETAILS

Image of session



Udemy | The Python Mega Course: Build 10 Real World Applications

```
<!DOCTYPE html>
<html lang="en">
  <title> Data Collector App</title>
  <head>
    <link href="../static/main.css" rel="stylesheet">
  </head>
    <body>
      <div class="container">
        <h1>Collecting height</h1>
        <h3>Please fill the entires to get population statistics on height</h3>
        <form action="success.html" method="POST">
          <input title="Your email will be safe with us" placeholder="Enter your email address" type="email" name="email_name" re
          <input title="Your data will be safe with us" placeholder="Enter your height in cm" type="number" min="50", max="300" r
          <button type="submit"> Submit </button>
        </form>
      </div>
    </body>
</html>
```

Course content

Section 32: Application 10: Build a Data Collector Web App with Post...
6 / 11 | 2hr 47min

- ✓ 258. Data Collector Web App - How The Output Will Look Like — 3min
- ✓ 259. PostGreSQL Database Web App with Flask: Steps — 6min
- ✓ 260. Frontend: HTML Part — 15min
- ✓ 261. Frontend: CSS Part — 10min
- ✓ 262. Backend: Getting User Input — 18min
- ✓ 263. Backend: The PostGreSQL Database Model — 18min

About this course

A complete Python course for both beginners and intermediates! Master Python 3 by

Creating an API or Web application using python has been made easy with Flask. It is a micro web framework written in Python.

Here you will create a python server using Flask, create database with PostgreSQL and deploy it on Heroku.

Code:

```
from flask import Flask, request

app = Flask(__name__)

@app.route("/")
def hello():
return "Hello World!"

@app.route("/name/<name>")
def get_book_name(name):
return "name : {}".format(name)

@app.route("/details")
def get_book_details():
 author=request.args.get('author')
 published=request.args.get('published')
 return "Author : {}, Published: {}".format(author,published)

 if __name__ == '__main__':
app.run()
```