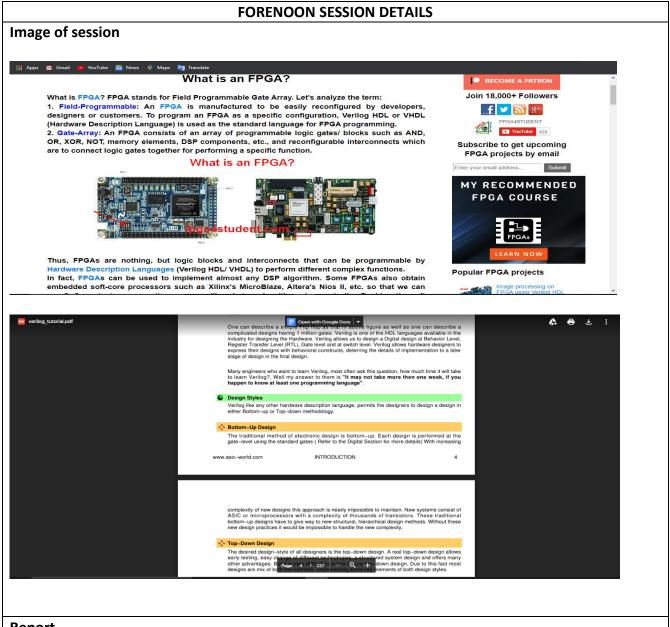
DAILY ASSESSMENT FORMAT

Date:	05-06-2020	Name:	K B KUSHI
Course:	Logic Design	USN:	4AL17EC107
Topic:	Digital design using HDL	Semester	6 th & B
		& Section:	
GitHub	https://www.github.com/alvas-		
Repository:	education-foundation/KUSHI-		
	COURSES		



Report -

• FPGA stands for Field Programmable Gate Array. It is an integrated circuit which can be "field" programmed to work as per the intended design.

- Verilog like any other hardware description language, permits the designers to design a design in either Bottom-up or Top-down methodology.
- Verilog simulator was first used beginning in 1985 and was extended substantially through 1987.
- Various stages of ASIC/FPGA:

```
Specification
High Level Design
Micro Design/Low level design:
RTL coding
Simulation
Synthesis
Place and route
```

• An FPGA designer likes working on this due to these reasons:

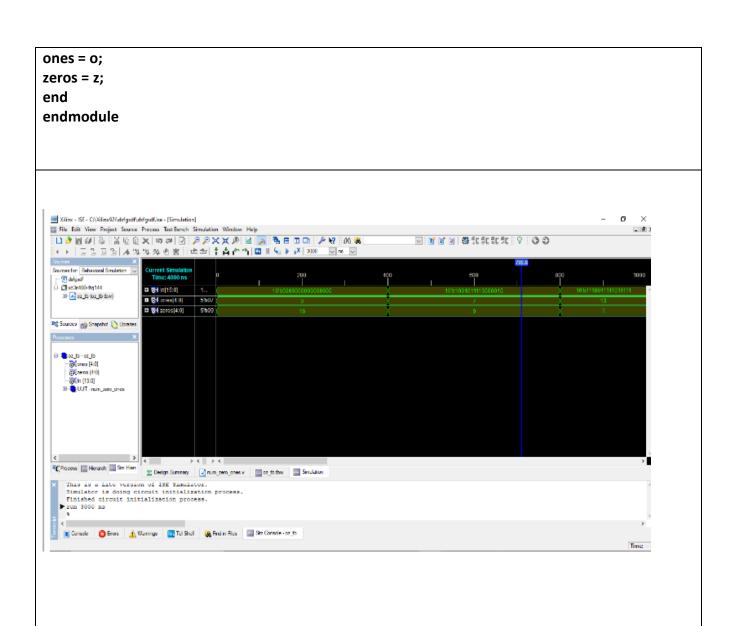
```
Very fast on-chip (FPGA) demonstration
Simple and fast design process on FPGA
FPGA's programmability
FPGA's high performance
FPGA's flexibility
```

• We also learnt the different ways and techniques of designing FPGA.

Implement a verilog module to count number of 0's in a 16 bit number in compiler.

```
Verilog code:
module num_zero_ones
(input [15:0] In,
output reg [4:0] ones,
output reg [4:0] zeros);
integer i, o, z;
always
@(in)
begin
o = 0;
z = 0;
for(i=0;i<16;i=i+1)
if(In[i] == 1'b1)
o = o + 1;
```

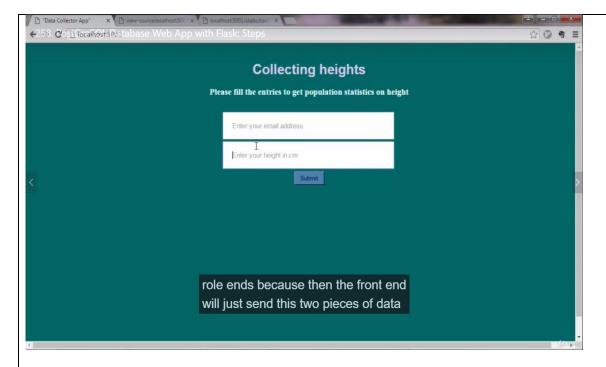
z = 16-0;

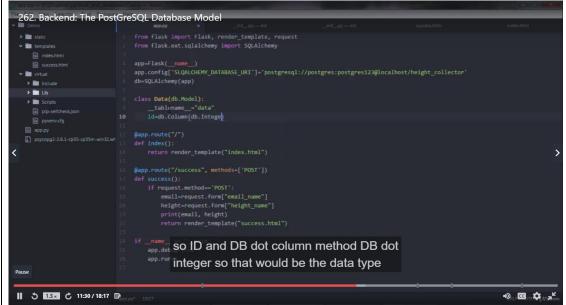


Date:	05-06-2020	Name:	K B KUSHI		
Course:	Udemy-python	USN:	4AL17EC107		
Topic:	Build a data collector web app with PostGreSQL and Flask	Semester &Section:	6 th & B		
GitHub repository	https://www.github.com/alvas- education-foundation/KUSHI- COURSES				
AETERNOON SESSION DETAILS					

AFTERNOON SESSION DETAILS

Image of session





Report -

- In this section we learnt to build a data collector web application, which collects height data from the user and sends the survey result via e-mail.
- To deploy the application to a live web server, Heroku platform is used and to save the data from the users, database is created in Heroku using credentials
- We can install Heroku CLI using this shell script.

- Then we have to Create python virtual environment for the project.
- To activate this environment, use this common inside book server directory.
- Then we install flask and write the code and run it.
- Then writing the database we need for our application is necessary.
- We need to define configurations for deploying environments
- Then we need to use flask package for database manipulations.
- After finishing the code completely Commit changes using git and push to Heroku.

