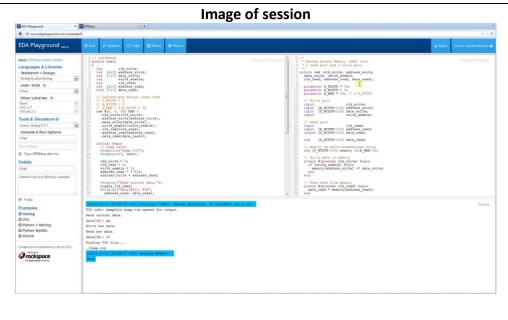
DAILY ASSESSMENT FORMAT

Date:	3/6/2020	Name:	Kishan shetty
Course:	Digital Design using HDL	USN:	4AL17EC041
Topic:	1. EDA Playground Online complier	Semest	6 th -'A'
	2. EDA Playground Tutorial Demo Video	er &	
	3. How to Download And Install Xilinx	Section	
	Vivado Design Suite	:	
	4. Vivado Design Suite for		
	implementation of HDL code		
Github	Kishanshetty-041	E-mail:	Shettykishan983@gmail.com
Reposit			
ory:			

FORENOON SESSION DETAILS



What is EDA Playground?

EDA Playground gives engineers immediate hands — on exposure to simulating system Verilog, Verilog, VHDL, C++/System C, and other HDLs. All you need is a web browser. The goal is to accelerate learning of design/test bench development with easier code sharing and simpler access to EDA tools and libraries. With a simple click, run your code and see console output in real time. View waves for your simulation using EP Wave browser-based wave viewer. Save your code snippets ("Playgrounds"). Share your code and simulation results with a web link. Perfect for web forum discussions or emails. Great for asking questions or sharing your knowledge. Quickly try something out. Try out a language feature with a small example. Try out a library that you're thinking of using. Example Use cases Quick prototyping —try out syntax a library/language feature. When asking questions on Stack Overflow or other online forums, attach a link to the code and simulation results.

Task: Implement 4 to 1 MUX using two 2 to 1 MUX using structural modelling style and test the module in online/offline compiler

```
library IEEE;
use IEEE.std logic 1164.all;
entity mux4to1 is
port(s1,s2,d00,d01,d10,d11: in std logic;
z out : out std logic);
end mux4to1:
architecture arc of mux4to1 is
component mux2to1
port(sx1,sx2,d0,d1: in std logic;
z : out std logic);
end component;
component or 2
port(a,b: in std logic;
c : out std logic);
end component;
signal intr1, intr2, intr3, intr4: std_logic;
begin
mux1: mux2to1 port map(s1,s2,d00,d01,intr1);
mux2: mux2to1 port map(not s1,s2, d10,d11,intr2);
o1: or 2 port map(intr1, intr2, z out);
end arc;
library ieee;
use ieee.std logic 1164.all;
```

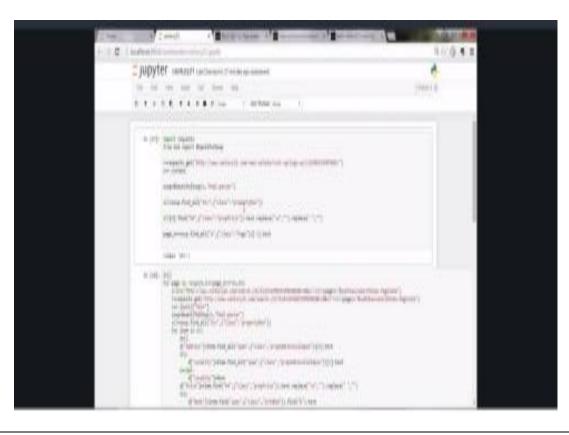
```
entity mux2to1 is
port(sx1,sx2,d0,d1 :in std_logic;
z1,z2: inout std_logic;
z: out std logic);
end mux2to1;
architecture arch of mux2to1 is
begin
z1 \le d0 and (not sx1) and (not sx2);
z2 <= (d1 and (not sx1) and sx2);
z \le z1 or z2;
end arch;
entity or_2 is
port(a,b: in bit;
      c: out bit);
end or_2;
architecture arc of or_2 is
begin
c<=a or b;
end arc;
Testbench code:
LIBRARY ieee;
USE ieee.std_logic_1164.ALL;
ENTITY mux4_tb IS
END mux4_tb;
ARCHITECTURE mux4_tb OF mux4_tb IS
  COMPONENT mux4
  PORT(
     d0: IN bit;
     d1: IN bit;
     d2: IN bit;
     d3: IN bit;
     s0: IN bit;
     s1: IN bit;
    y: OUT bit
    );
  END COMPONENT;
 signal d0 : bit := '1';
```

```
signal d1 : bit := '0';
 signal d2 : bit := '1';
 signal d3 : bit := '0';
 signal s0 : bit := '0';
 signal s1 : bit := '0';
 signal y: bit;
BEGIN
 uut: mux4 PORT MAP (
     d0 => d0,
     d1 => d1,
     d2 => d2,
     d3 => d3,
     s0 => s0,
     s1 => s1,
     y => y
    );
stim_proc: process
begin
s0 <= '0';
s1 <= '0';
wait for 50 ns;
s0 <= '0';
s1 <= '1';
wait for 50 ns;
s0 <= '1';
s1 <= '0';
wait for 50 ns;
s0 <= '1';
s1 <= '1';
wait;
end process;
END;
```

Date:	3/6/2020	Name:	Kishan shetty	
Course:	python	USN:	4AL17EC041	
Topic:	Application 6: Building a Mobile App	Semester	6 th -'A'	
	with Python	& Section:		

AFTERNOON SESSION DETAILS

Image of session



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

Web scraping with Python Beautiful Soup

- Introduction to web scraping using BeautifulSoup from bs4 library and requests module.
- BeautifulSoup is a Python library for pulling data out of HTML and XML files. It works with your favorite parser to provide idiomatic ways of navigating, searching, and modifying the parse tree. It commonly saves programmers hours or days of work.
- The requests module allows you to send HTTP requests using Python. The HTTP request returns a Response Object with all the response data.
- Web scraping: Web scraping is a term used to describe the use of a program or algorithm to extract and process large amounts of data from the web. Whether you are a data scientist, engineer, or anybody who analyzes large amounts of datasets, the ability to scrape data from the web is a useful skill to have. Let's say you find data from the web, and there is no direct way to download it, web scraping using Python is a skill you can use to extract the data into a useful form that can be imported.