**DAILY ASSESSMENT FORMAT**

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| **Date:** | **01/06/2020** | | **Name:** | **Abhishek Vasudev Mahendrakar** | | |
| **Course:** | **Digital Design using HDL** | | **USN:** | **4AL17EC003** | | |
| **Topic:** | 1. **Industry Applications of FPGA** 2. FPGA Business Fundamentals 3. FPGA vs ASIC Design Flow 4. FPGA Basics – A Look Under the Hood 5. Task for Day-1 | | **Semester & Section:** | **6th-‘A’** | | |
| **Github Repository:** | **ECEAbhishekVMahendrakar** | | **E-mail:** | **abhi2244mahendrakar@gmail.com** | | |
| **FORENOON SESSION DETAILS** | | | | | |
| **Image of session** | | | | | |
| **Report – Report can be typed or hand written for up to two pages.**  **TASK-1:**  **Write a verilog code to implement NAND gate in all different styles.**   1. **Gate-level Modeling:**   Code:  module NAND\_gate\_level(output Y, input A, B);       wire Yw;       and(Yw, A, B);       not(Y, Yw);  endmodule   1. **Data-flow Modeling:**   Code:  module NAND\_data\_flow (output Y, input A, B);  assign Y = ~(A & B);  endmodule   1. **Behavioral Modeling:**   Code:  module NAND\_2\_behavioral (output reg Y, input A, B);  always @ (A or B) begin      if (A == 1'b1 & B == 1'b1) begin          Y = 1'b0;      end      else          Y = 1'b1;  end  endmodule | | | | | |
| **Date:** | **01/06/2020** | **Name:** | | | **Abhishek Vasudev Mahendrakar** |
| **Course:** | **UDEMY-The Python Mega Course: Build 10 real world applications** | **USN:** | | | **4AL17EC003** |
| **Topic:** | **Application 6: Build a Webcam Motion Detector** | **Semester & Section:** | | | **6th-‘A’** |
| **AFTERNOON SESSION DETAILS** | | | | | |
| **Image of session**  page4image40868768 | | | | | |
| **Report – Report can be typed or hand written for up to two pages.**  **Build a Webcam Motion Detector:**   * In this Application we learnt about building a Webcam Motion Detector. * Creating Grey scale images and converting it into white and black. * Also having raw colour images to detect motion. * When motion is detected it starts noting the time at which the motion is detected. * And that time and date is stored in excel file. * Time at which motion was detected and saved in excel sheet is shown below.   page5image40535680 | | | | | |