**DAILY ASSESSMENT FORMAT**

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| **Date:** | **04-06-2020** | **Name:** | **Kavya M M** |
| **Course:** | **HDL** | **USN:** | **4AL17EC040** |
| **Topic:** | **1.Hardware modeling using**  **2. Verilog interview Questions & answers for FPGA & ASIC** | **Semester & Section:** | **6th A** |
| **Github Repository:** | **Kavya\_ECE040** |  |  |

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| **FORENOON SESSION DETAILS** |
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| VLSI Design process:   * Design complexity increasing rapidly  1. Increased size and complexity 2. Fabrication technology improving 3. CAD tools are essential 4. Conflicting requirements like area , speed and energy consumption  * The present trend  1. Standardize the design flow 2. Emphasis on low power design and increase performance   Need to use Computer Aided Design (CAD) tools:   * Based on HDL * HDLs provides formats for representing the outputs of various design steps * A CAD tool transforms its HDL output that contains more detailed information about the hardware  1. Behavioural level to register transfer level 2. Register transfer level to gate level 3. Gate level to transistor level 4. Transistor level to layout level   Two competing HDLs   1. Verilog 2. VHDL   Designs are typically using HDLs, which gets transformed from one level of abstraction to the next as the design flow progresses  There are other HDLs like system C, system Verilog, and many more  Other steps in design flow:   * Simulation for verification * Formal verification * Testability analysis and test pattern generation   Task:  Implement a simple T Flipflop and test the module using a compiler:  Design code:      Test bench code:    Output: |

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| **Date:** | **01-06-2020** | **Name:** | **Kavya M M** | |
| **Course:** | **Python** | **USN:** | **4AL17EC040** | |
| **Topic:** | **Web camera video capturing** | **Semester & Section:** | **6th A** | |
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| **AFTERNOON SESSION DETAILS** | | | |
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| * Computer vision with python using OpenCV * OpenCV means open source computer vision * To install OpenCV:   Pip install opencv-python  Import cv2  When we import cv2, if we get no error then OpenCV is successfully installed.   * Cv2 is the name that OpenCV developers close where they created the binding generator * **Computer Vision** is one of the hottest topics in artificial intelligence * OpenCV is a library of programming functions mainly aimed at the real-time **computer vision**. | | | |