**DAILY ASSESSMENT FORMAT**

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| **Date:** | **5/06/2020** | **Name:** | **DHAMINI C L** |
| **Course:** | **Digital Design Using HDL** | **USN:** | **4AL17EC025** |
| **Topic:** | **1. Verilog Tutorials and practice**  **programs**  **2. Building/ Demo projects**  **using FPGA** | **Semester & Section:** | **6TH & A** |
| **Github Repository:** | **DHAMINI-CL-Course** |  |  |

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| **FORENOON SESSION DETAILS** |
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| **Report:**  **Verilog Tutorials and practice programs**  ** Learnt the basics of Verilog hdl**  ** Learnt how write the program in Verilog in all modeling style**      **Implement a Verilog module to count number of 0’s in a 16-bit number.**  **module num\_zeros\_for(**  **input [15:0] A,**  **output reg [4:0] ones**  **);**  **integer i;**  **always@(A)**  **begin**  **ones = 0;**  **for(i=0;i&lt;16;i=i+1)**  **if(A[i] == 0&#39;b1)**  **ones = ones + 1;**  **end**  **endmodule**  **output**  **Input = &quot;1010\_0010\_1011\_0010&quot; =&gt; Output = &quot;01001&quot; ( 9 in decimal)**  **Input = &quot;0011\_0110\_1000\_1011&quot; =&gt; Output = &quot;01000&quot; (8 in decimal)** |

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| **Date:5/6/2020** |  | **Name: DHAMINI C L** |  | |
| **Course:PYTHON** |  | **USN:4AL17EC025** |  | |
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| **Topic: Legacy Exercises** |  | **Semester & Section:6TH A SEC** |  | |
| **AFTERNOON SESSION DETAILS** | | | |
| **Image of session** | | | |
| **Report – Report can be typed or hand written for up to two pages.**   * Python was designed for readability, and has some similarities to the English language with influence from mathematics. * Python uses new lines to complete a command, as opposed to other programming languages which often use semicolons or parentheses. * Python relies on indentation, using whitespace, to define scope; such as the scope of loops, functions and classes. Other programming languages often use curly-brackets for this purpose.   In programming, data type is an important concept.  Variables can store data of different types, and different types can do different things.  Python has the following data types built-in by default, in these categories:   |  |  | | --- | --- | | Text Type: | str | | Numeric Types: | int, float, complex | | Sequence Types: | list, tuple, range | | Mapping Type: | dict | | Set Types: | set, frozenset | | Boolean Type: | bool | | Binary Types: | bytes, bytearray, memoryview |   A list is a collection which is ordered and changeable. In Python lists are written with square brackets.  thislist = ["apple", "banana", "cherry"] print(thislist) | | | |