**DAILY ASSESSMENT FORMAT**

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| **Date:** | **28/05/2020** | **Name:** | **Pv sai suraksha** |
| **Course:** | **Logic Design** | **USN:** | **4AL17EC064** |
| **Topic:** | **Boolean Equations for digital circuits. Combinational Circuits: conversation of MUX and Decoders to logic gates. Design of 7 segment decoder with common anode display.** | **Semester & Section:** | **6th sem**  **B section** |
| **GitHub Repository** | **surakshacourses** |  |  |

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| **FORENOON SESSION DETAILS** |
| **Image of session** |
| **Report – Report can be typed or hand written for up to two pages.**  **\* The three main ways of specifying the function of a combinational logic circuit are: ... Boolean Algebra – This forms the algebraic expression showing the operation of the logic circuit for each input variable either True or False that results in a logic “1” output. 2.**  **\* 2-input AND Gate**  **For a 2-input AND gate, the output Q is true if BOTH input A “AND” input B are both true, giving the Boolean Expression of: ( Q = A and B ).** **\* 2-input OR (Inclusive OR) Gate** **For a 2-input OR gate, the output Q is true if EITHER input A “OR” input B is true, giving the Boolean Expression of: ( Q = A or B ).**  **\* A Digital Decoder IC, is a device which converts one digital format into another and one of the most commonly used devices for doing this is called the Binary Coded Decimal (BCD) to 7-Segment Display Decoder.**  **7-segment LED (Light Emitting Diode) or LCD (Liquid Crystal Display) type displays, provide a very convenient way of displaying information or digital data in the form of numbers, letters or even alpha-numerical characters.**  **Typically**[**7-segment displays**](https://www.electronics-tutorials.ws/blog/7-segment-display-tutorial.html)**consist of seven individual coloured LED’s (called the segments), within one single display package. In order to produce the required numbers or HEX characters from 0 to 9 and A to F respectively, on the display the correct combination of LED segments need to be illuminated and BCD to 7-segment Display Decoders such as the 74LS47 do just that.**  **A standard 7-segment LED display generally has eight (8) input connections, one for each LED segment and one that acts as a common terminal or connection for all the internal display segments. Some single displays have also have an additional input pin to display a decimal point in their lower right or left hand corner.** |

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| **Date:** | **28/05/2020** | **Name:** | **Pv sai suraksha** |
| **Course:** | **Python** | **USN:** | **4AL17EC064** |
| **Topic:** | **Decorators with Python Overview.** | **Semester & Section:** | **6th sem**  **B section** |
| **AFTERNOON SESSION DETAILS** | | | |
| **Image of session**      **\*** **A decorator in Python is any callable Python object that is used to modify a function or a class. A reference to a function "func" or a class "C" is passed to a decorator and the decorator returns a modified function or class.**    **Decorators belong most probably to the most beautiful and most powerful design possibilities in Python, but at the same time the concept is considered by many as complicated to get into. To be precise, the usage of decorators is very easy, but writing decorators can be complicated, especially if you are not experienced with decorators and some functional programming concepts.  Even though it is the same underlying concept, we have two different kinds of decorators in Python:**   * **Function decorators** * **Class decorators** | | | |