**DAILY ASSESSMENT FORMAT**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date:** | **27 MAY 2020** | **Name:** | **MANAVI** |
| **Course:** | **logic design** | **USN:** | **4AL18EC031** |
| **Topic:** | **Day 1: boolean equation and conversion of mux and decoderto logic gates 2.7 segment decoder** | **Semester & Section:** | **4TH SEM**  **& A SEC** |
| **Github Repository:** | **Manavi-test** |  |  |

|  |
| --- |
| **FORENOON SESSION DETAILS** |
| **Image of session** |
| **Report – Report can be typed or hand written for up to two pages.**  **MUX AND DECODERS:-**   * The multiplexer (also known as a data selector) will select data from several transmission lines to be gated to the output transmission line. * The multiplexer will also have a number of control inputs that are used to select the appropriate data channel for input. * The number of data inputs is equal to 2N where N is the number of control select leads.   The 74151 is a eight-line multiplexer with three select lines.   * An additional input on the 74151 is an enable input which can be used to expand the size of the multiplexer. * A multiplexer can also be used to implement a SOP Boolean Expression in combinational logic. * Decoders are often used in microprocessor systems to decode the address information from the microprocessor in order to select the correct memory chip. A popular IC for this application is the 74138 or 74HCT138. * Encoders are often used in microprocessor or in microcontroller applications to combine or * group a large number of inputs down to a smaller binary count of the input activity. The 74148 is a popular IC encoder chip for these kinds of applications. * Microprocessor based systems with serial input and output ports can use multiplexers and demultiplexers to route serial data to and from a number of different destinations. * Multiplexers are used to combine several inputs into one and demultiplexers, or data distributors are used to send a single output to one of several destinations. * An analog multiplexer can be used as a staircase generator which in turn can be used to provide a multiple input for an oscilloscope. * A multiplexer/demultiplexer can be used to multiplex a 7-segment display system.  |  |  |  |  | | --- | --- | --- | --- | | **DATE:** | **27 MAY 2020** | **NAME:** | **MANAVI** | | **COURSE:** | **PYTHON** | **USN:** | **4AL18EC031** | | **TOPIC:** | **DAY 9:build a desktop database application.** | **SEMESTER & SECTION:** | **4TH SEM & A SEC** | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  | |
|  |  |  |  | |
|  |  |  |  | |
|  |  |  |  | |
| AFTERNOON SESSION DETAILS | | | |
| Image of session | | | |
| Report – Report can be typed or hand written for up to two pages.   * Python is an interactive programming which has a diverse range of options for GUI (Graphical User Interface) framework (help developers create GUI applications in an easy and secure manner). * This article discusses the Best Python framework for building a desktop application and GUI. * NB: It is essential that you have a basic knowledge of Python programming language before you can use these python frameworks.   PyQt is a Graphical User Interface widget toolkit.   * It is one of the most powerful and popular Python interfaces. * It is a combination of the Qt (owned by Nokia) library and Python programming language which leaves a developer to decide whether to create a program by coding or create visual dialogs using Qt Designer. * PyQt is a free Python bindings software open-source widget-toolkit Qt, implemented for cross-platform application development framework. * In the free version, certain features may not be available but if your application is open source then you can use it under a free license. * PyQt is available on Windows, MacOSX, Linux, Android iOS and Raspberry Pi and different python versions ranging from v2 to Qt v5. | | | |