**DAILY ASSESSMENT FORMAT**

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| **Date:** | **04-06-2020** | **Name:** | **Anand kumar k** |
| **Course:** |  | **USN:** | **4al16ec002** |
| **Topic:** | **T flipflop** | **Semester & Section:** | **8thsem ‘A’ sec** |
| **Github Repository:** | **Anand-courses** |  |  |

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| **FORENOON SESSION DETAILS** |
| **Image of session**  Designing of T Flip Flop  **Truth table**  T Is for Toggle: Understanding the T Flip-Flop - Technical Articles  **Verilog code**  module tff ( input clk,  input rstn,  input t,  output reg q);    always @ (posedge clk) begin  if (!rstn)  q <= 0;  else  if (t)  q <= ~q;  else  q <= q;  end  endmodule  **Test bench code**  module tb;  reg clk;  reg rstn;  reg t;    tff u0 ( .clk(clk),  .rstn(rstn),  .t(t),  .q(q));    always #5 clk = ~clk;    initial begin  {rstn, clk, t} <= 0;    $monitor ("T=%0t rstn=%0b t=%0d q=%0d", $time, rstn, t, q);  repeat(2) @(posedge clk);  rstn <= 1;    for (integer i = 0; i < 20; i = i+1) begin  reg [4:0] dly = $random;  #(dly) t <= $random;  end  #20 $finish;  end  endmodule |
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| **Date:** | **04-06-2020** | **Name:** | **Anand kumar k** | |
| **Course:** |  | **USN:** | **4al16ec002** | |
| **Topic:** | **python** | **Semester & Section:** | **8thsem ‘A’ sec** | |
| **AFTERNOON SESSION DETAILS** | | | |
| **Image of session** | | | |
| * **Builtin objects** are all objects that are written inside the Python interpreter in C language. * **Builtin modules** contain builtins objects. * Some builtin objects are not immediately available in the global namespace. They are parts of a builtin module. To use those objects the module needs to be **imported** first. E.g.:   1. import time   2. time.sleep(5) * **A list of all builtin modules** can be printed out with:   1. import sys   2. sys.builtin\_module\_names * **Standard libraries** is a jargon that includes both builtin modules written in C and also modules written in Python. * **Standard libraries** written in Python reside in the Python installation directory as .py files. You can find their directory path with sys.prefix. * **Packages** are a collection of .py modules. * **Third-party libraries** are packages or modules written by third-party persons (not the Python core development team). * Third-party libraries can be **installed** from the terminal/command line:   Windows:  pip install pandas or use python -m pip install pandas if that doesn't work.   * Mac and Linux:   pip3 install pandas or use python3 -m pip install pandas if that doesn't work. | | | |