**DDCO LAB WEEK3 SUBMISSION INSTRUCTIONS**

**Read the below instructions before submission of WEEK3 DDCO Lab Programs.**

**The name of the PDF file is DDCOLAB3\_PES2UG19CSxxx\_STUDENTNAME\_SECTION.pdf**

**PROGRAM 1**

**AIM: DESIGN A 16 BIT ALU FULL ADDER USING THE FULL ADDER MODULE AND COMPLETE THE TRUTH TABLE TO IMPLEMENT ADDITION, SUBTRACTION, AND OPERATION,** **XOR OPERATION**

1. Complete the code provided in the alu.v (source File) and execute it using the iverilog command along with the related testbench.

2. Your Submission should include the screenshot

1. the source code file
2. GTKWAVE waveform
3. The complete truth table (all 16 combinations) has to be filled

3. Upload the zipped folder containing the PDF and alu.v source file.