

BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY

Department of Computer Science and Engineering

January 2021 CSE 206 Online Assignment on

Basics of Counters (Section: A1 & B1)

Implement a synchronous 4-bit up counter using flip-flops of your choice that will count from 0 up to a certain number x and then reset to 0 on the following clock pulse. Here,

$$x = \text{your_student_ID} \pmod{5} + 10$$

Create a PDF document containing a hand-written circuit diagram along with the truth table. Submit the PDF file and the .circ file simulated in Logisim in a single zip file named by your student ID.