THE UNIVERSITY OF AZAD JAMMU & KASHMIR, MUZAFFARABAD



COURSE TITLE CALD COURSE CODE CS-1205 LAB TITLE ADDER-SUBTRACTOR STUDENT NAME HASEEB SHEIKH STUDENT ROLL NUMBER 2024-SE-31 **INSTRUCTOR NAME** ENGR. SIDRA RAFIQUE **SUBMISSION DATE** AUG 09, 2025

DEPARTMENT OF SOFTWARE ENGINEERING

CALD

Lab 6

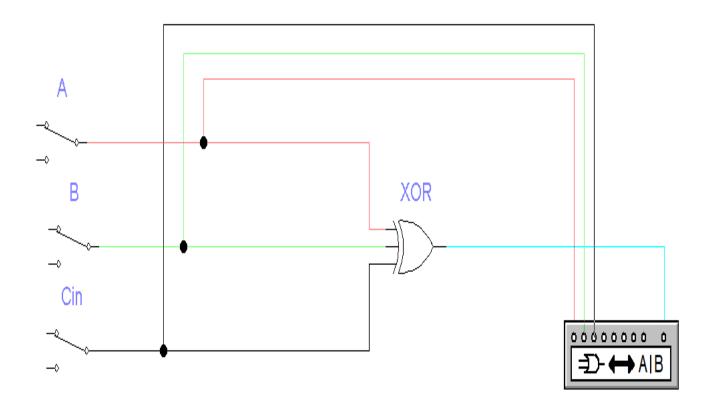
Objective:

This experiment aims to demonstrate the working of the full adder as well as the working of half subtractor.

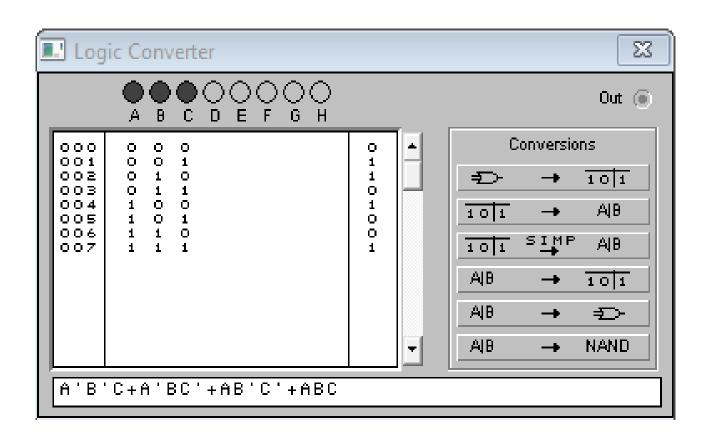
Experiment on EWB

Full Adder Using Logic Gates

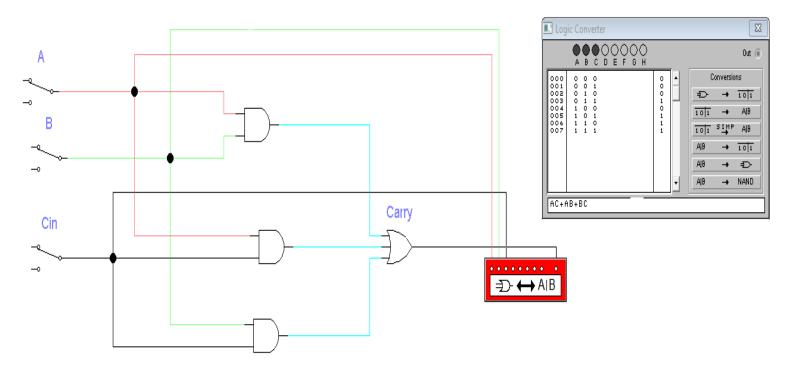
Sum Output

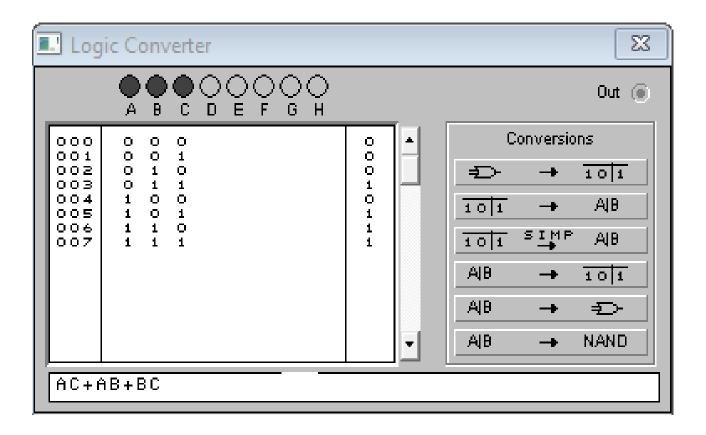


Truth Table



Carry Output

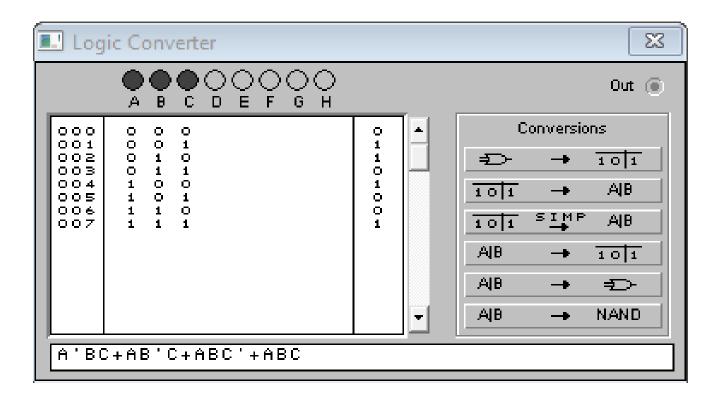




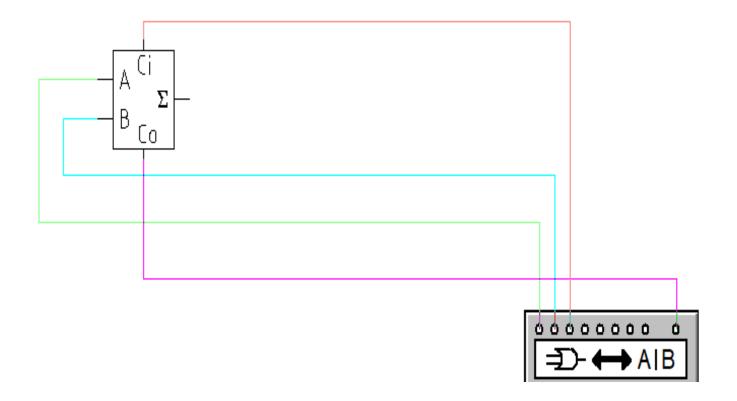
Using Built-In Full Adder

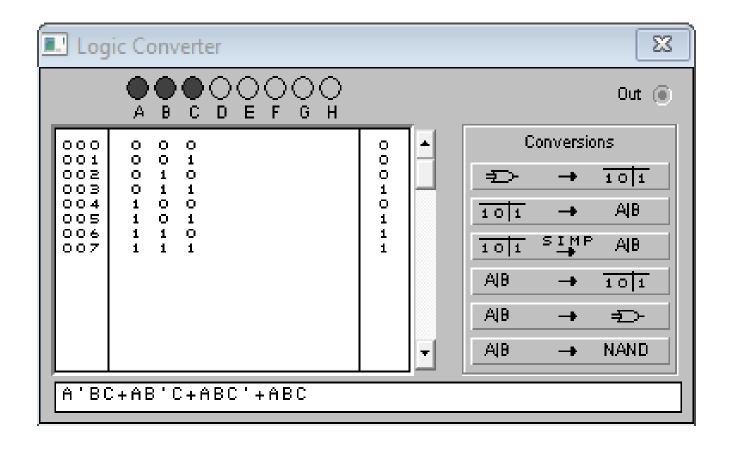
Sum Output





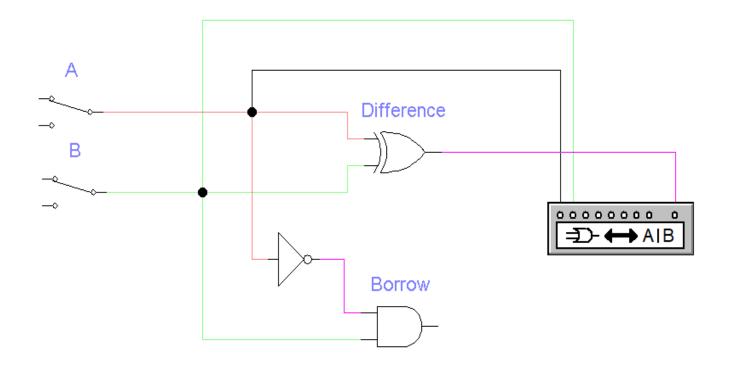
Carry Output

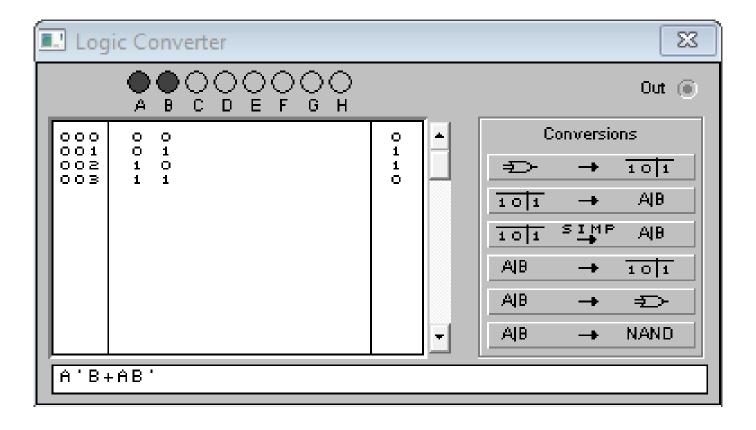




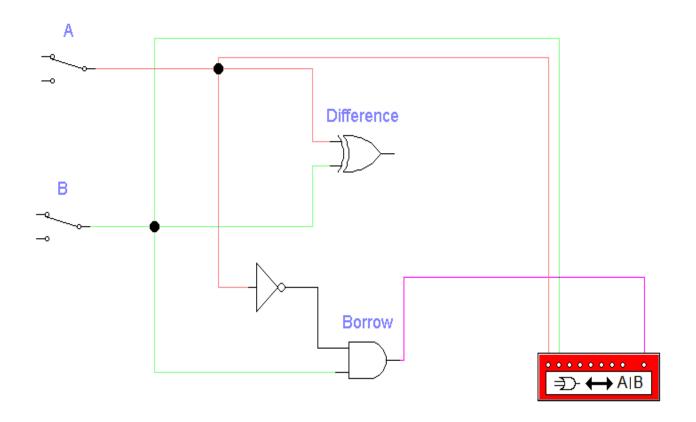
Half Subtractor

Difference Output

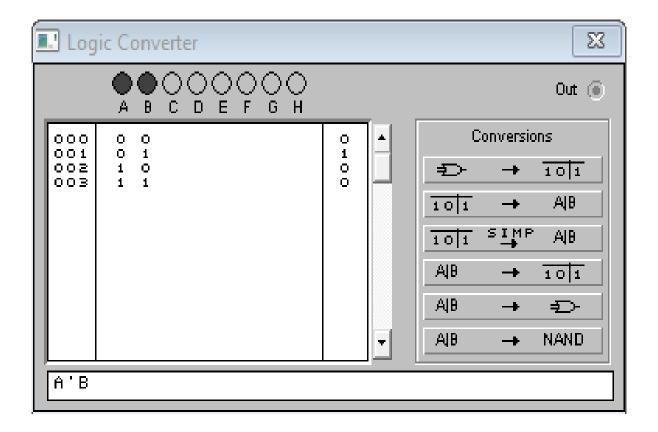




Borrow Output

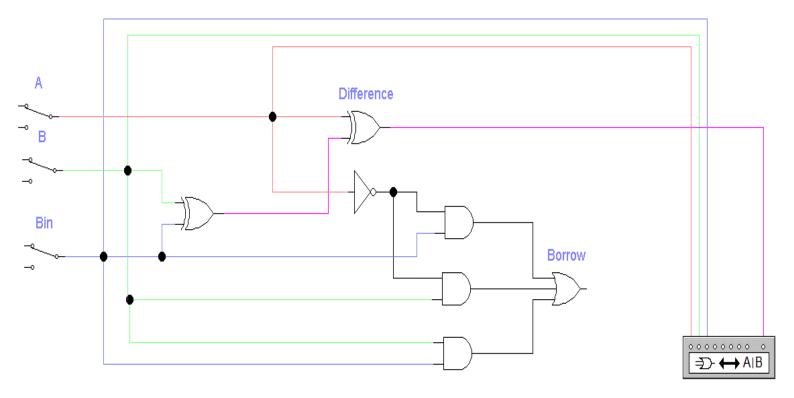


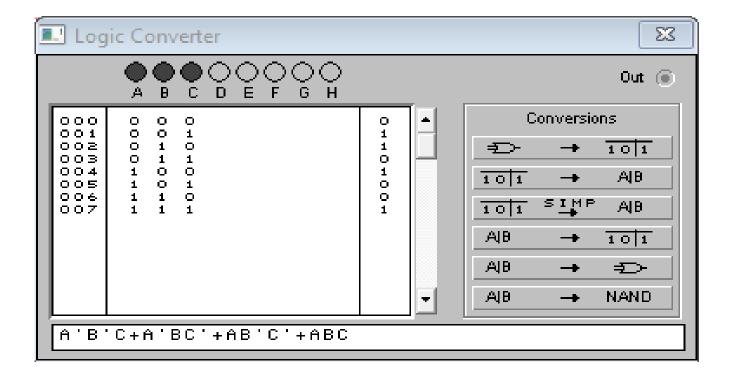
Truth Table



Full Subtractor

Difference Output





Borrow Output

