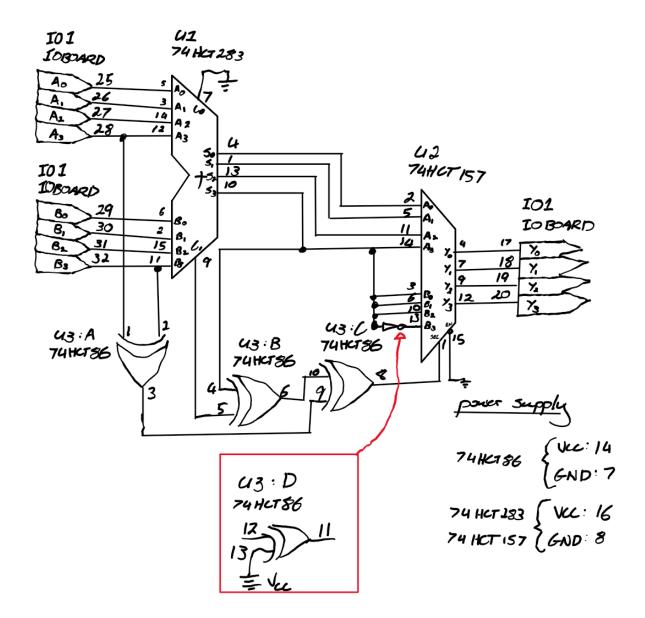
Part B - Functional Verification via Circuit Testing Task [8 Marks]



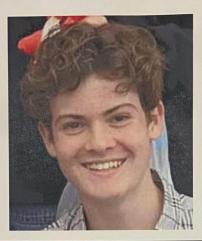
Note the XOR consinguration $(A_3 \oplus B_3) \oplus (S_3 \oplus C_{out})$ Given my student number 48030504 E=0060 F=0101 G=0000 H=0100Test Case $A_3A_2A_1A_0$ $B_3B_3B_1B_0$ $X_3X_2X_1X_0$ 1 0111 0011 0111 2 1011 100 1000 3 0000 0101 0100

Chips used (in order shown from left to right).

74 HCT 283, 74 HCT 86, 74 HCT 157

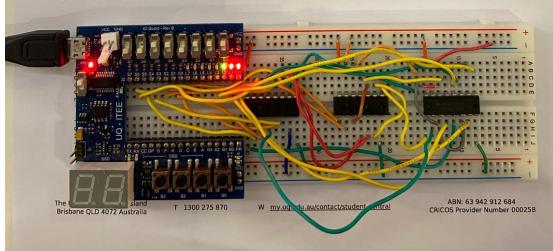


Temporary Examination ID



Name	Mr Samuel Peter Allpass (Samuel)
Student Number	48030504
Birth Date	16 Feb 2005
Program	
Course Code	CSSE2010
Date of Exam	15 Apr 2025
Time of Exam	12:00 PM

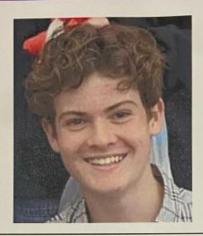
Course enrolment verified by Isaac Peries and temporary examination ID issued on 15 Apr 2025 at 10:09 AM



Test Case 2

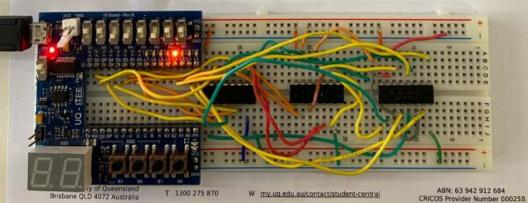


Temporary Examination ID

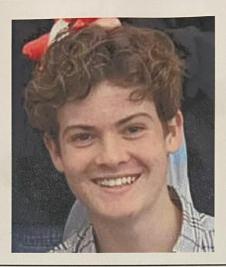


Name	Mr Samuel Peter Alipass (Samuel)
Student Number	48030504
Birth Date	16 Feb 2005
Program	
Course Code	CSSE2010
Date of Exam	15 Apr 2025
Time of Exam	12:00 PM

Course enrolment verified by Isaac Peries and temporary examination ID issued on 15 Apr 2025 at 10:09 AM

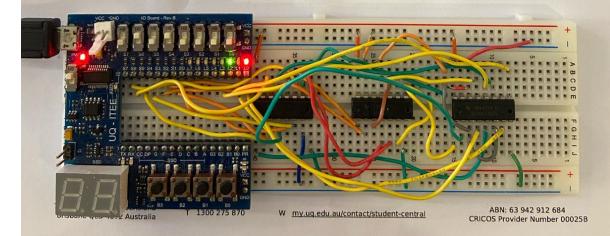


Temporary Examination ID



Name	Mr Samuel Peter Allpass (Samuel)
Student Number	48030504
Birth Date	16 Feb 2005
Program	
Course Code	CSSE2010
Date of Exam	15 Apr 2025
Time of Exam	12:00 PM

Course enrolment verified by Isaac Peries and temporary examination ID issued on 15 Apr 2025 at 10:09 AM



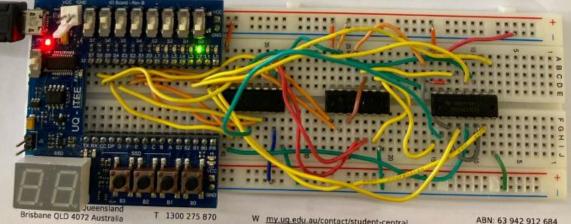
Test Case 4:

Temporary Examination ID



Name	Mr Samuel Peter Alipass (Samuel)
Student Number	48030504
Birth Date	16 Feb 2005
Program	
Course Code	CSSE2010
Date of Exam	15 Apr 2025
Time of Exam	12:00 PM

Course enrolment verified by Isaac Peries and temporary examination ID issued on 15 Apr 2025 at 10:09 AM



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ABN: 63 942 912 684 CRICOS Provider Number 00025B