

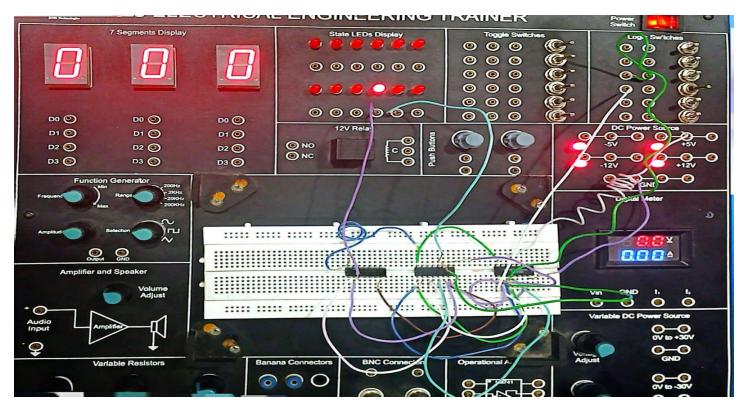
The University of Azad Jammu and Kashmir, Muzaffarabad

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Course Name	Computer Architecture and Logic Design
Submitted to	Engr. Sidra Rafique
Semester	2nd
Session	2024-2028
Roll No	2024-SE-38
Lab No	05

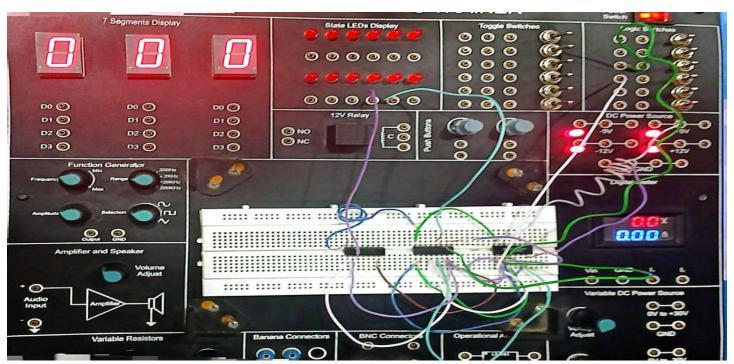
Department of Software Engineering

Half Adder Not

 $A \quad B = Sum \quad Carry$ $1 \quad 0 = 1 \quad 0$

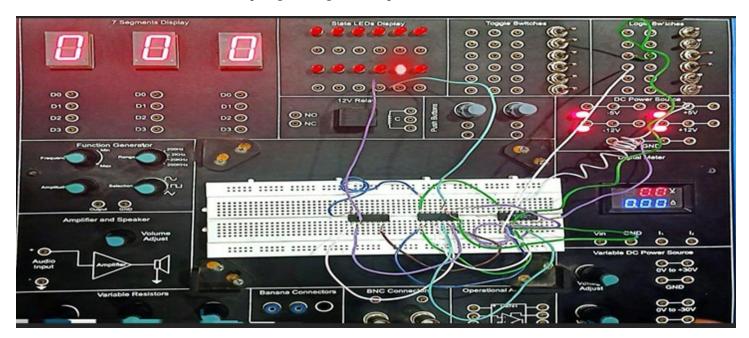


 $A \quad B = Sum \quad Carry$ $0 \quad 0 = 0 \quad 0$



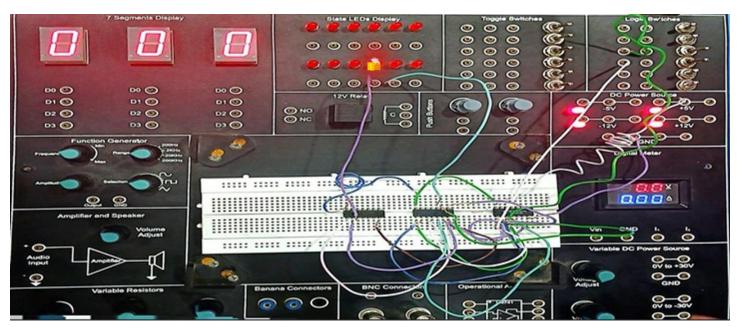
$$A \quad B = Sum \quad Carry$$

$$0 \quad 1 = 1 \quad 0$$



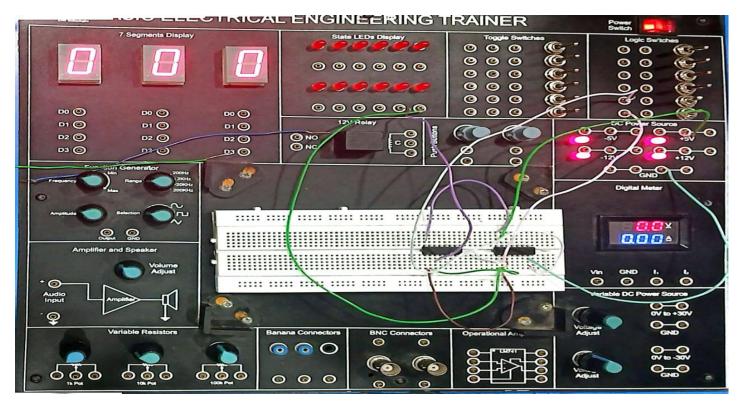
$$A \quad B = Sum \quad Carry$$

$$1 \quad 1 = 0 \qquad 1$$

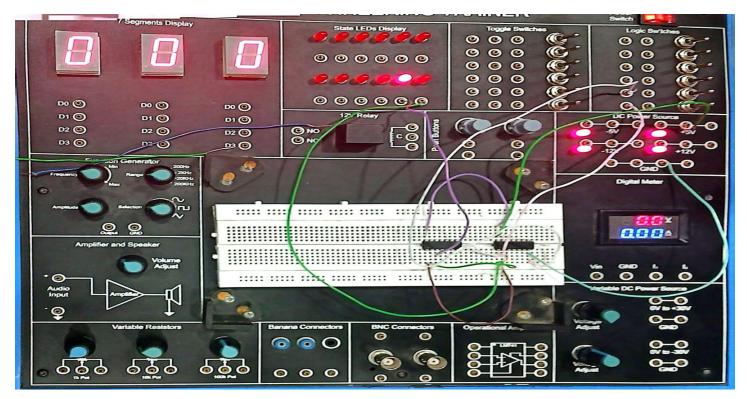


Half Adder X-OR

 $A \quad B = Sum \quad Carry$ $0 \quad 0 = 0 \quad 0$



 $A \quad B = Sum \quad Carry$ $1 \quad 1 = 0 \qquad 1$



 $A \quad B = Sum \quad Carry$ $0 \quad 1 = 1 \quad 0$

