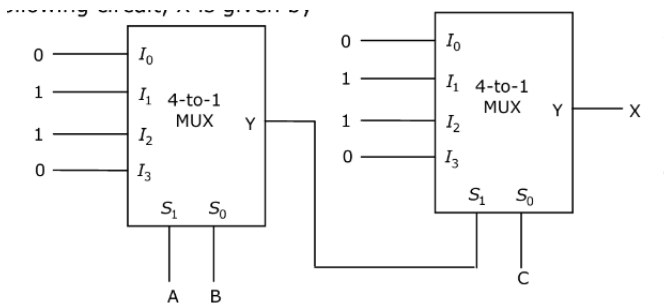


ASSIGNMENT-1

0.1 Question-2007 Q43

In the following circuit,X is given by



0.4 Hardware

1. Pins 2,3,4 of Arduino are taken as input and pin 5 is taken as output.
2. Connect 5v and gnd to Breadboard. Connect Led and resistor on breadboard

0.5 Solution

0.2 Contents

Components	3
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Abstract- This manual shows the output X, for the given input A,B,C

0.3 Components

Component	Value	Quantity
Resistor	220 Ohm	1
Arduino	UNO	1
Jumper Wires	M-M	6
Breadboard		1
LED		1

Expression: $AB'C' + A'BC' + A'B'C + ABC$
Truth Table

A	0	0	0	0	1	1	1	1
B	0	0	1	1	0	0	1	1
C	0	1	0	1	0	1	0	1
X	0	1	1	0	1	0	0	1

1. Go to the working directory execute `pio run` and `pio run -t upload`.
2. Whenever you change the inputs you will see the respective output.

Codelink: <https://github.com/DivyaSai9621/FWC/blob/main/assignment-1/ide/codes/src/main.cpp>