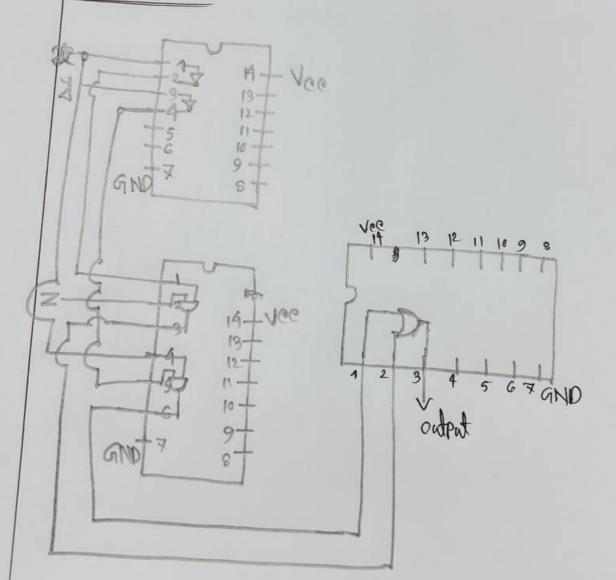
Output: Here after constructing—the cincuit and testing it with soft different values, we can conclude that it exactly matches with our truth—table. So, we can say our cincuit with its simplified from gets—the actual output.

MCO RMA Herre two inventors and two and gade and a one on gates are used to get the final output.

Pin Diagnom:

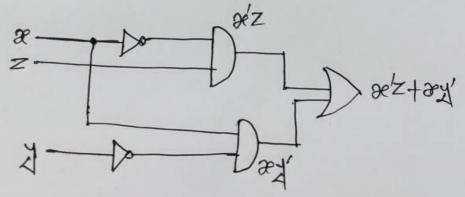


ICO MA Simplified -function truth table: æ æ 8/Z 2/2+24

Hence we can say we will get exactly the same ?

Logic Diagnom:





ig

OOM

Apparatus: Breed board, sumper, rables, power supply (5v), 74LS04, 74L508, 74L532. Boolean Function: F= 20/2 + 20/2 + 20/2 = &z(x+x)+2x' = 2/2 12/ SO, the simplified form is setz + ory' Truth Table: 2/12 24 2/2+2/12+2/2 94XZ ZXX . 0 -0 .0 .0 .0 . 0

Name: Anan ID: 2102065 Reg: 10192 CCE-224
DLD (Sessional)

(Sessional)

Expariment of

Expariment Title: Implementing cincuit with basic gales.

Theory: This lab introduces basic logic gates and ICs. we are trizing to implement a basic gate with its simplified form. Our & equation is odd'z tod'z tod'. Here we if we are trizing to implement it directly, we will have to use upto 7 different logic gates so we try to simplify our equation to get a more minimal and optimal approach to solve the circuit. Here,

Not Gate = An inverter, which turns its output into opposite bit.

And Gate = This gate outputs 1 only if all imports are 1.