

① Aim: Implement a 2 Binary Multiplier

Circuit Diagram :- Screenshot uploaded

Truth Table:-

A		B		Y			
A ₁	A ₀	B ₁	B ₀	Y ₃	Y ₂	Y ₁	Y ₀
0	0	0	0	0	0	0	0
0	0	0	1	0	0	0	0
0	0	1	0	0	0	0	0
0	0	1	1	0	0	0	0
0	1	0	0	0	0	0	0
0	1	0	1	0	0	0	1
0	1	1	0	0	0	1	0
0	1	1	1	0	0	1	1
1	0	0	0	0	0	0	0
1	0	0	1	0	0	1	0
1	0	1	0	0	1	0	0
1	0	1	1	0	1	1	0
1	1	0	0	0	0	0	0
1	1	0	1	0	0	1	1