

DDCO ASSIGNMENT 3

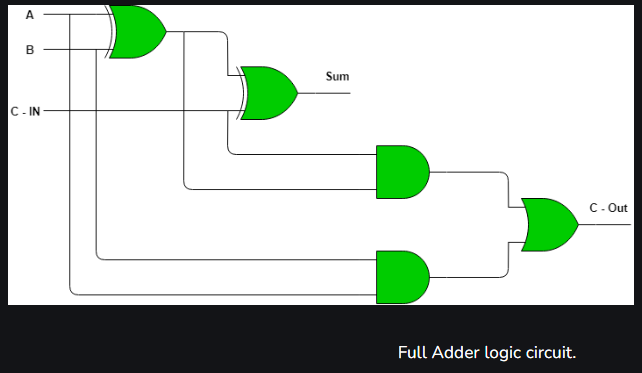
31-08-23

GAUTAM V HANCHINAL

PES1UG22CS215

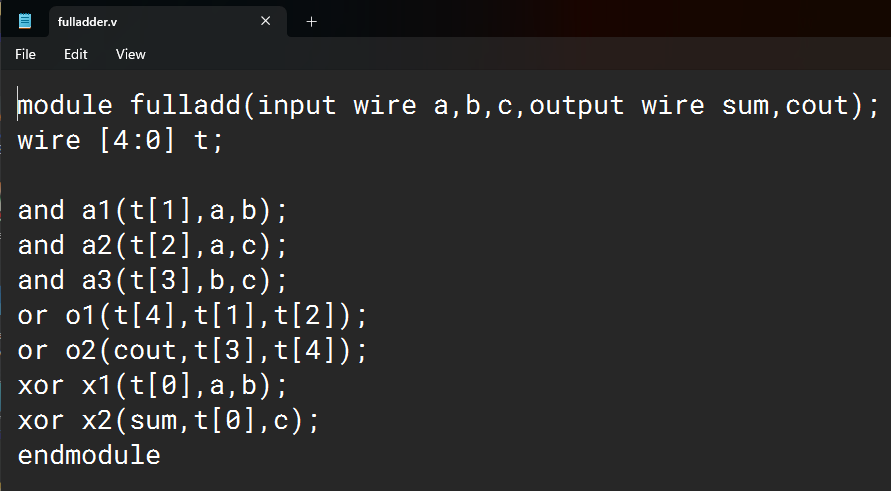
SECTION D

1. FULL ADDER:

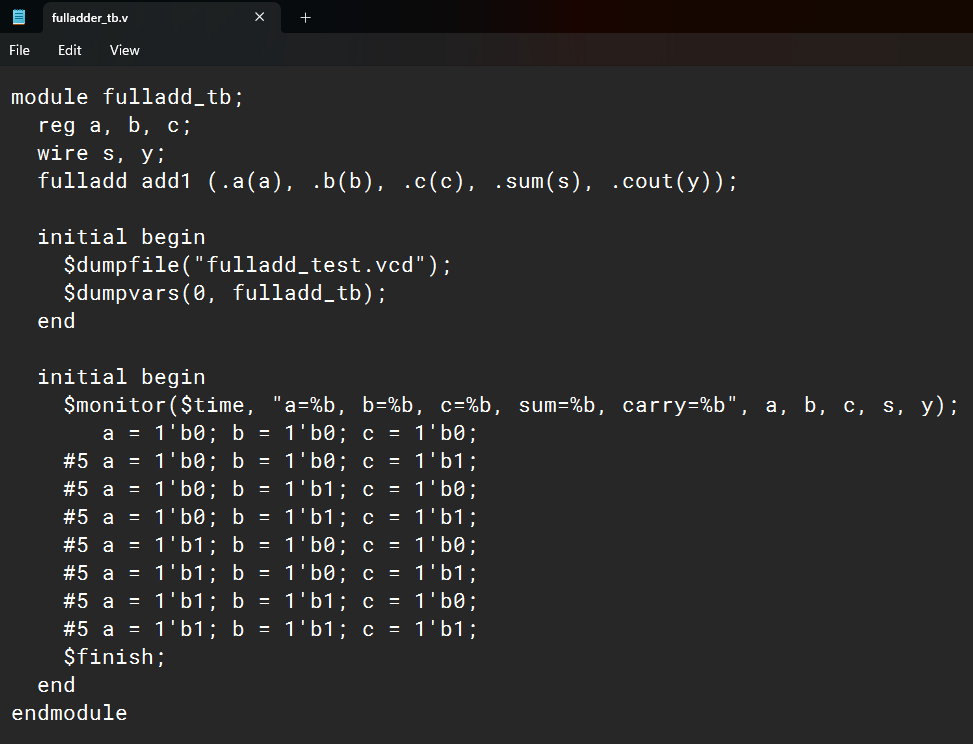


SOURCE : GEEKforGEEKS

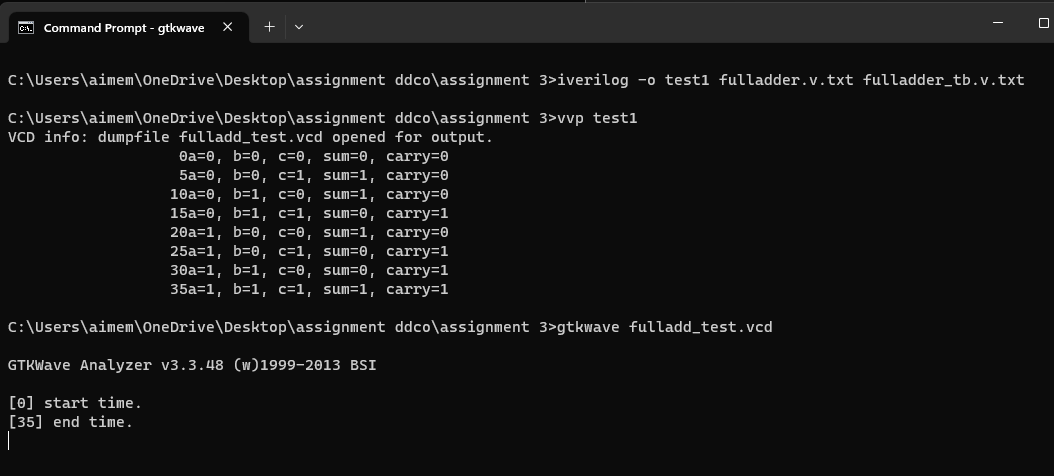
Main Code:



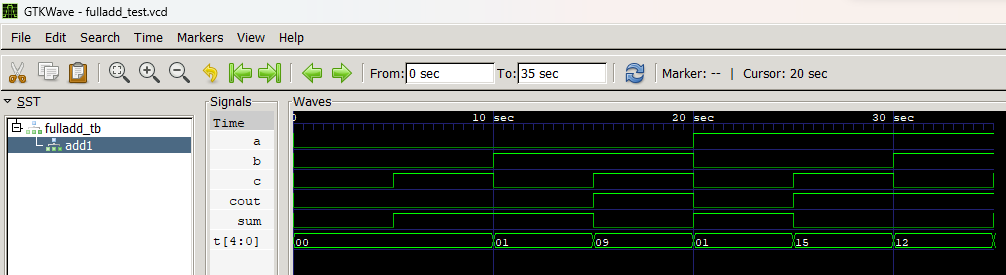
Test Bench:



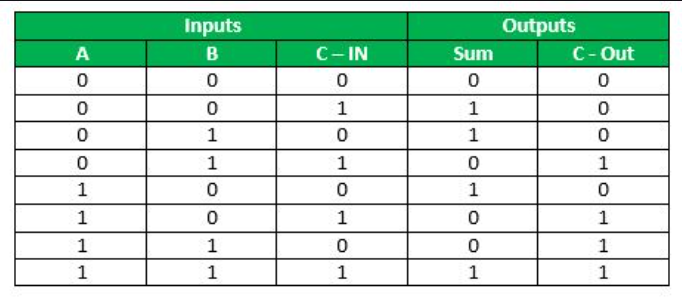
VVP Output:



GTKWAVE output:

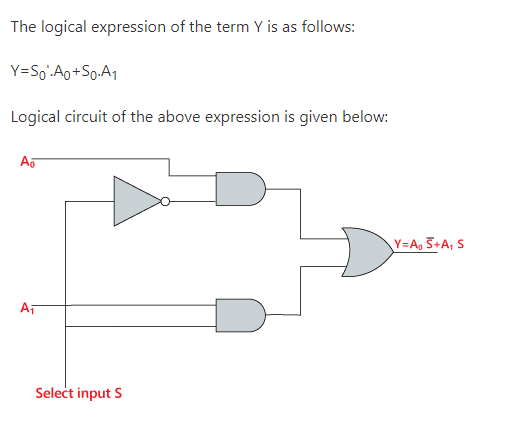


Truth Table:



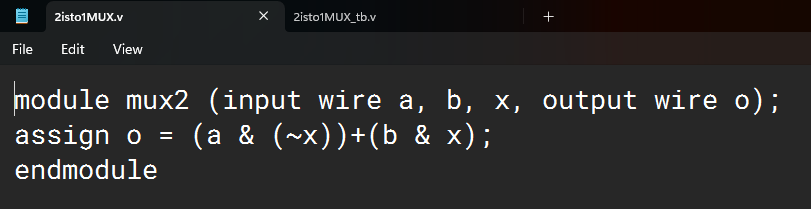
SOURCE : GEEKforGEEKS

1. 2:1 MUX

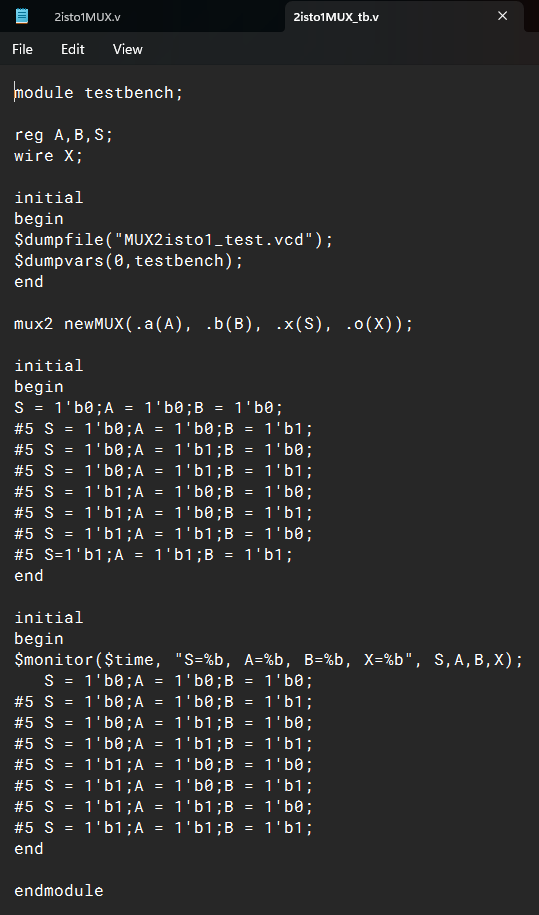


SOURCE: javatpoint.com/ multiplexer-digital-electronics

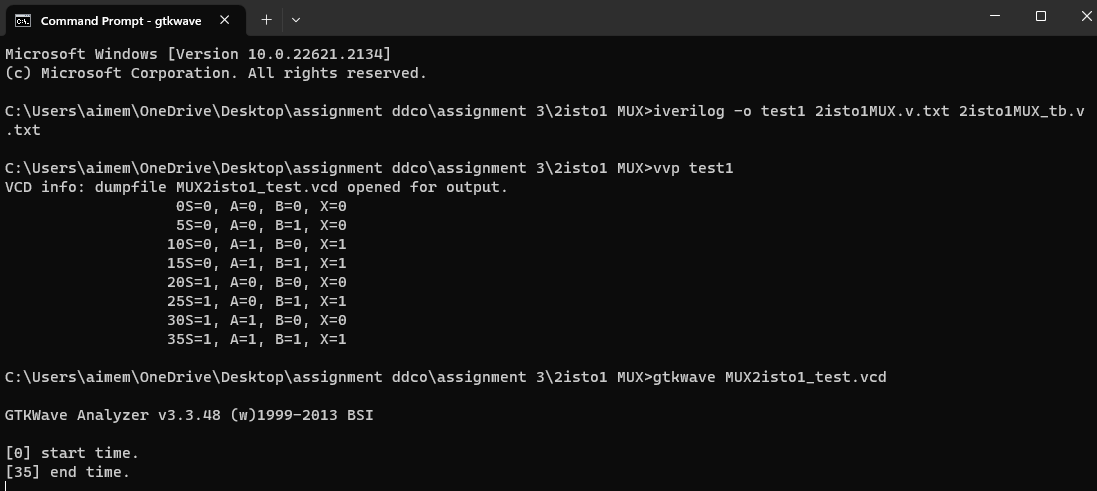
Main Code:



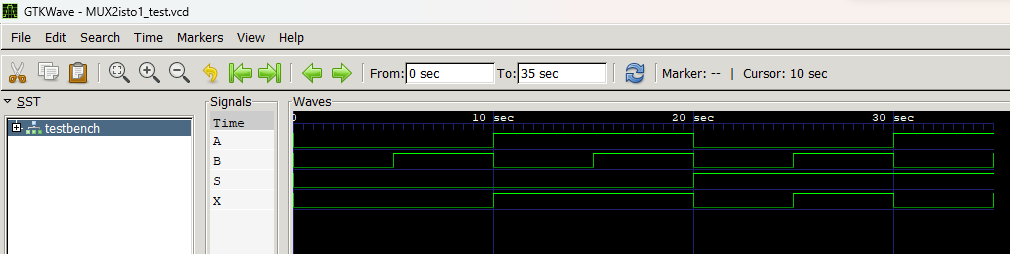
Test Bench:



VVP output:



GTKWAVE output:



Truth Table:

|  |  |
| --- | --- |
| ***INPUT(s)*** | ***OUTPUT*** |
| ***So*** | ***X*** |
| 0 | A |
| 1 | B |