

```

a = 1'b0;
b = 1'b1;
#100
a = 1'b1;
b = 1'b1;
end
endmodule

```

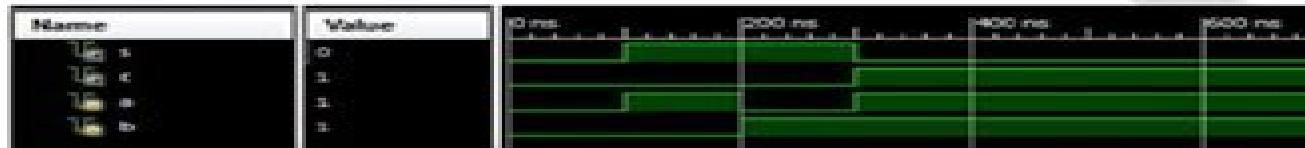


Figure 4.6 RTL Simulation waveforms for code for Half adder

Step 3: Review the console output for results and debugging information.

At time 0: a=0 b=0, s=0, c=0

At time 1000000: a=1 b=0, s=1, c=0

At time 2000000: a=0 b=1, s=1, c=0

At time 3000000: a=1 b=1, s=0, c=1

4.2.3 APPLICATIONS OF HALF ADDER:

1. Half adders are used in various digital circuits, including arithmetic logic units (ALUs) and adder-subtractor units.
2. They are the basic building blocks for constructing full adders and multi-bit adders.
3. Half adders can be used to add two binary numbers to get the least significant bits of the result.

4.3 FULL ADDER

4.3.1 THEORY

The full adder adds three single-bit input and produce two single-bit output. Thus, it is useful when an extra carry bit is available from the previously generated result.

Microprocessors Lab Manual Vtu

John Crane

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Microprocessors and Embedded Systems with Lab Manual Muhammad A Mazidi,Rolin D McKinlay,2014-09-24

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Corporation,1979 Intel Microprocessors Roy W. Goody,1993-01 This is the instructor s manual to accompany a text based on the widely used Intel family of microprocessors It provides answers to questions and problems in the text as well as information concerning the results of the experiments with programs in the lab manual *M6800 Microprocessor : Lab Manual* Burrows, S. (Stuart),Algonquin College. Electronics Department,Hanbury, Michael,1994 *Government Reports Annual Index ,1985* **New Serial Titles** ,1981 A union list of serials commencing publication after Dec 31 1949

Bibliography of Agriculture ,1991-08 *Practical Electronics (Volume I)* Balamurugan A,Veeramanikandasamy

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web aug 29 2023 some points to remember when balancing redox reactions the equation is separated into two half equations one for oxidation and one for reduction the equation is balanced by adjusting coefficients and adding h 2 o h and e in this order balance the atoms in the equation apart from o and h

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web in the redox equation below that occurs in our stomach which of the following pairs identifies the reducing and oxidizing agents respectively c 6 h 8 o 6 2h 2no 2 c 6 h 6 o 6 2h 2 o 2no choose 1 answer c 6 h 8 o 6 and no 2 a c 6 h 8 o 6 and no 2 no 2 and c 6 h 8 o 6 b no 2 and c 6 h 8 o 6 h and no 2 c h and