Automatic Washing Machine Control System Using Verilog HDL

TEAM MATRIX

Team members:-

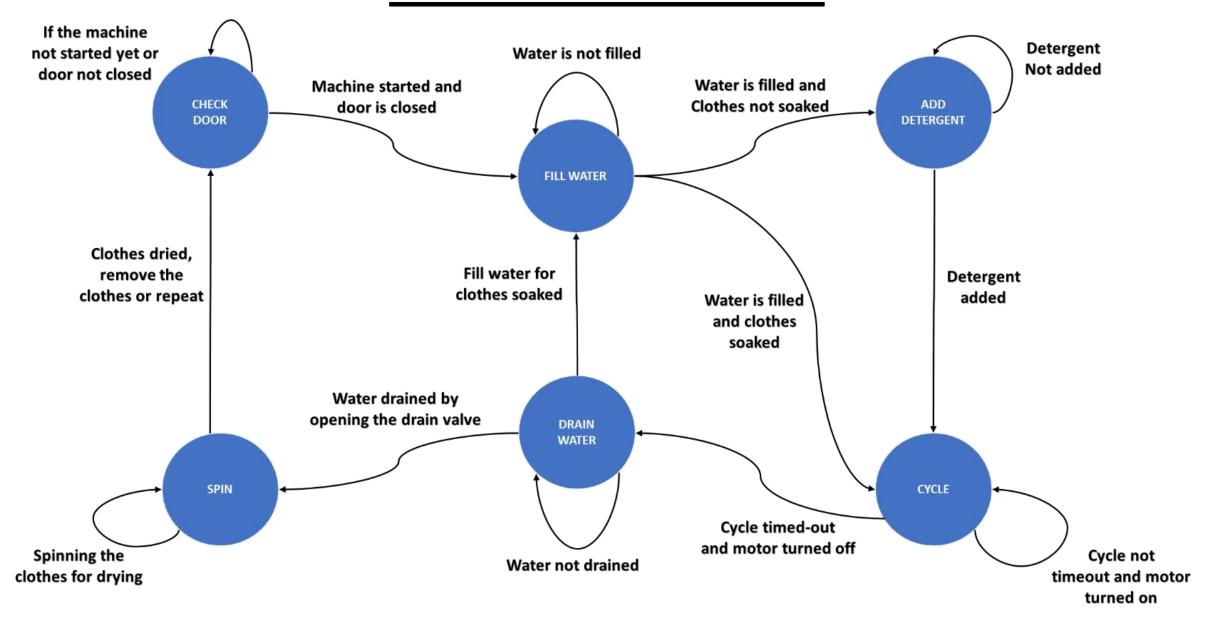
Nishant Sharma Tushar Verma Shagun vats Mansi Verma

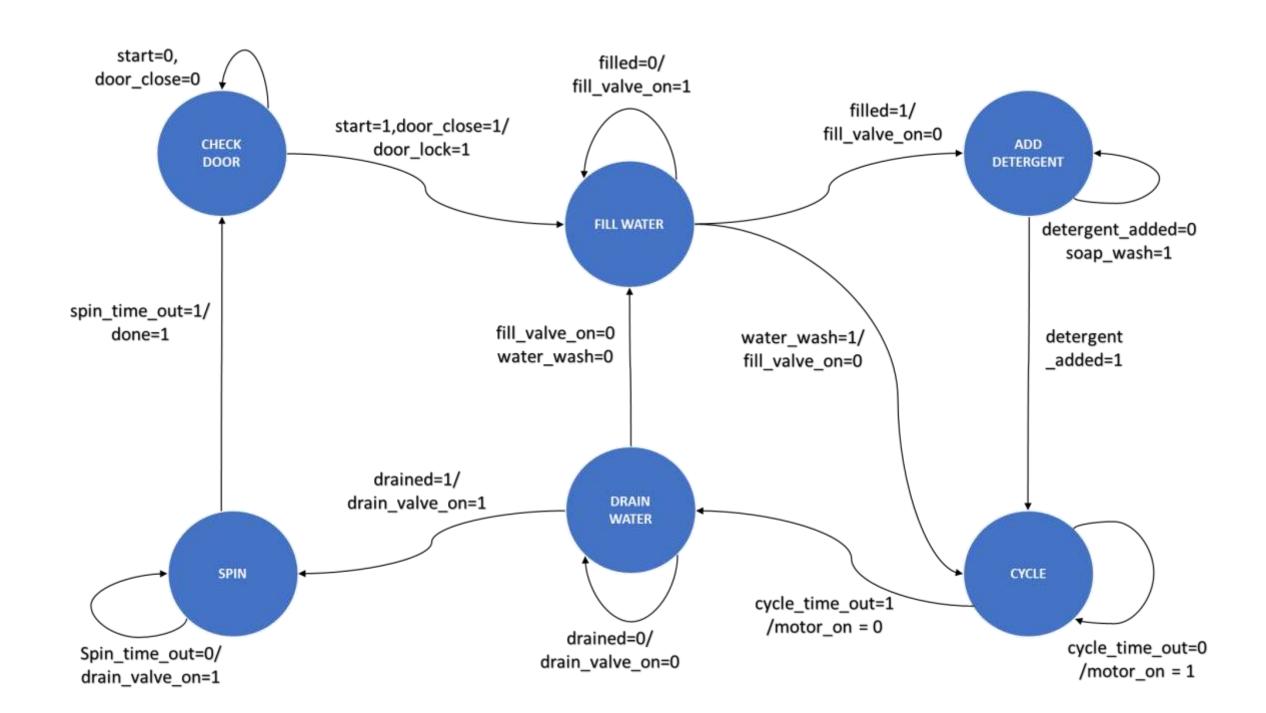


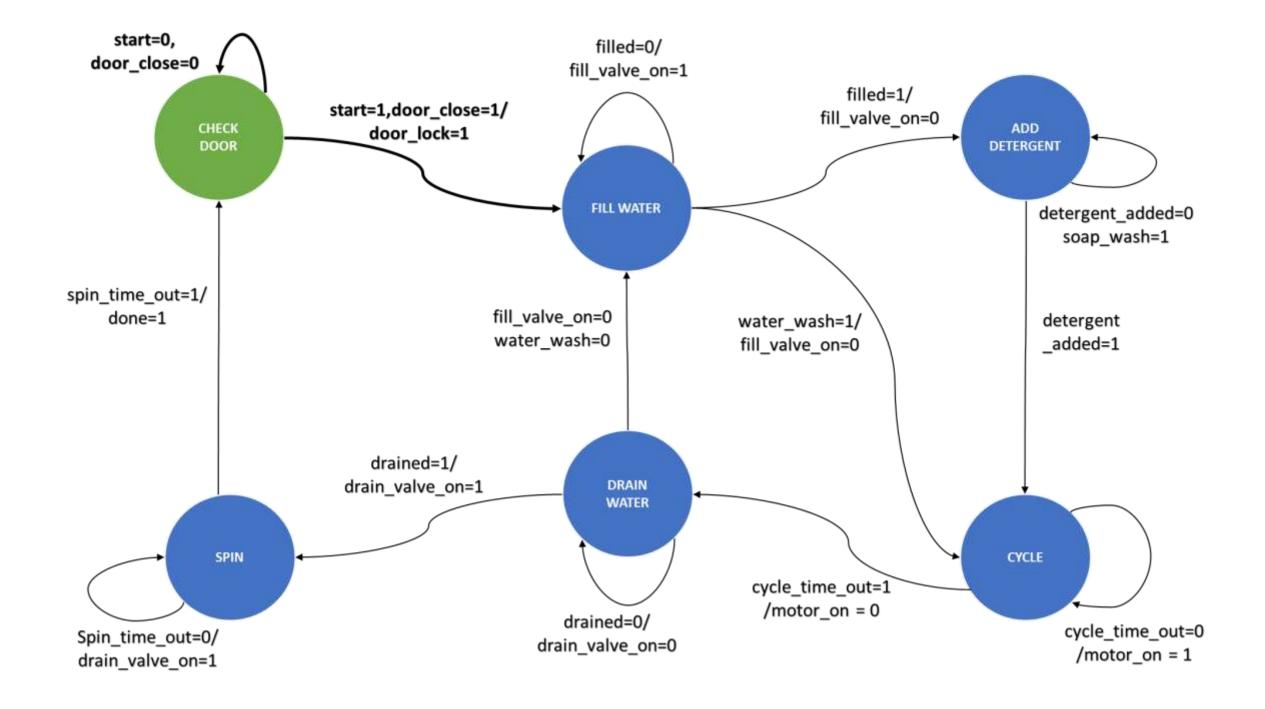
Introduction

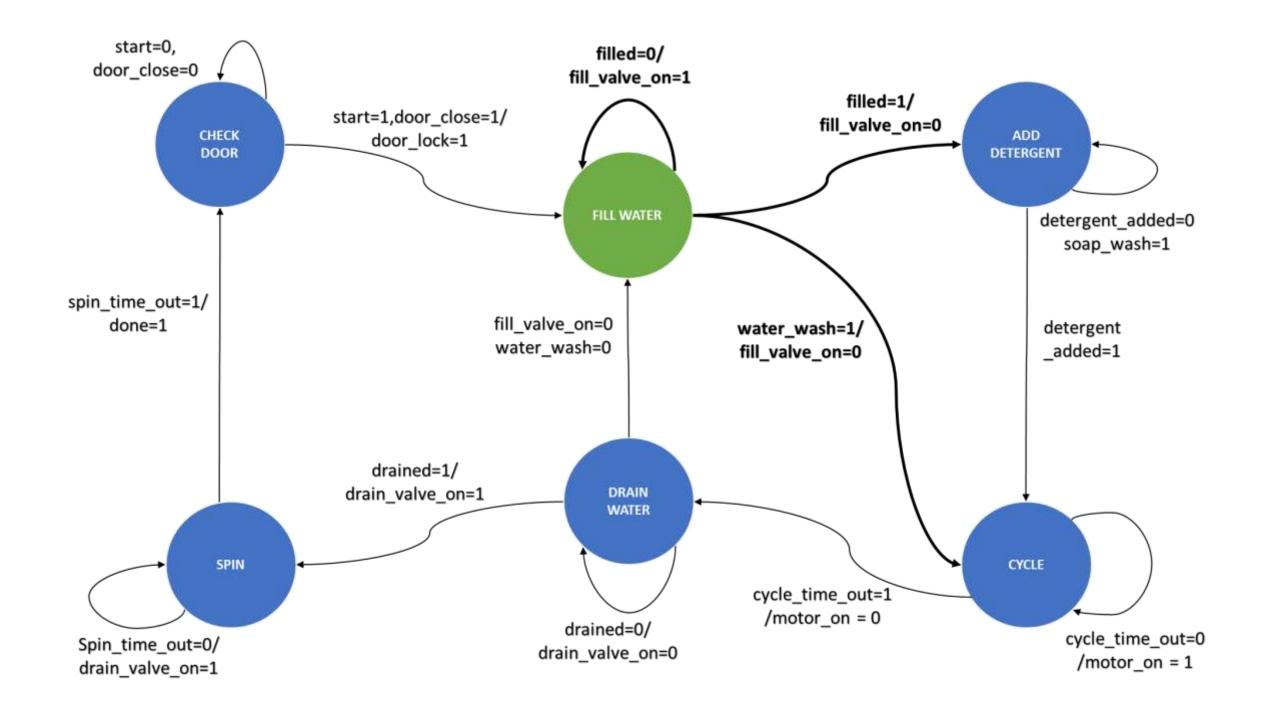
- Various real life scenarios can be represented by Finite State Machines like control system of an automatic washing machine.
- Assigning the main stages of the process like Close door, fill water, add detergent, cycle, drain and spin various states that can be implemented as a State Machine.
- Writing a test bench to observe the working of the machine.
- Using Xilinx ISE 14.7 to implement the control system.

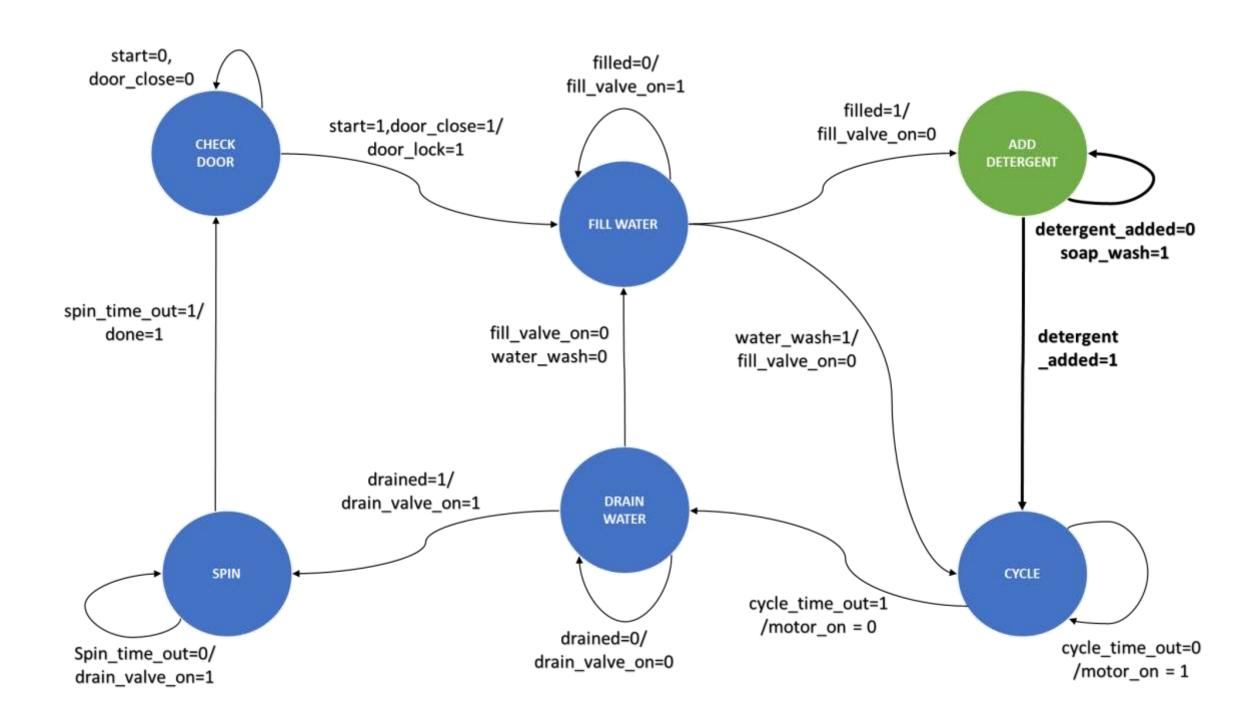
STATE DIAGRAM

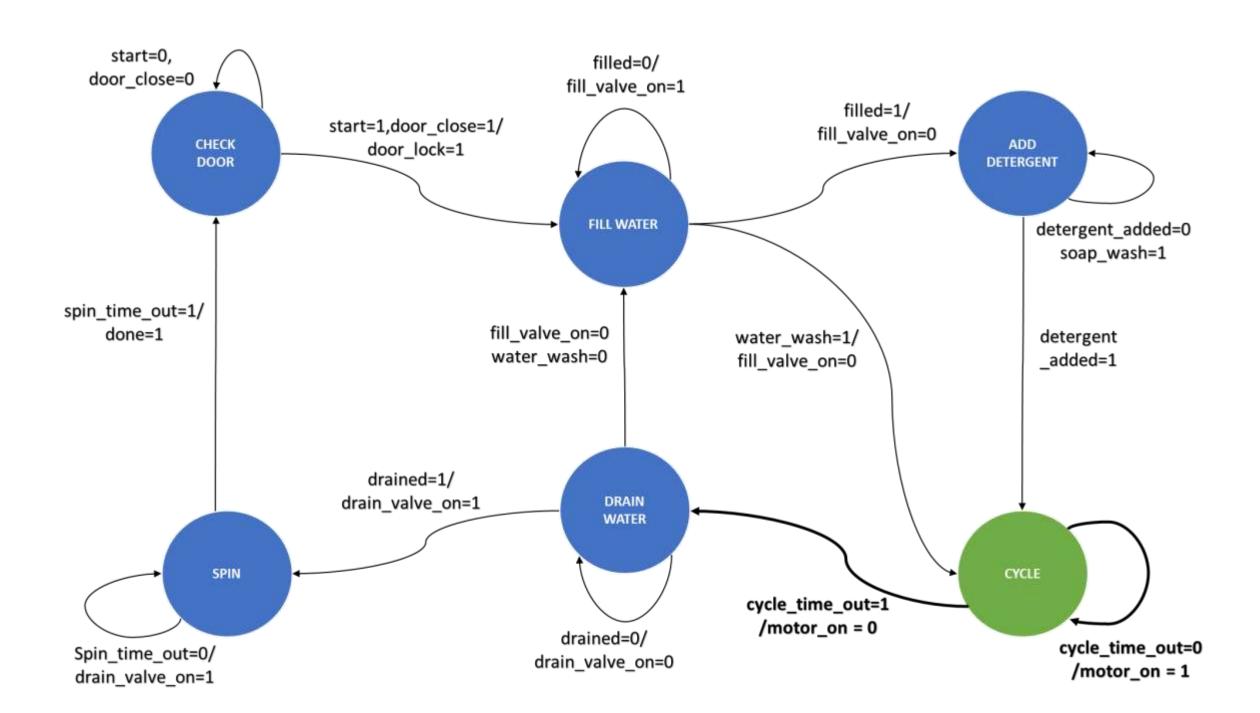


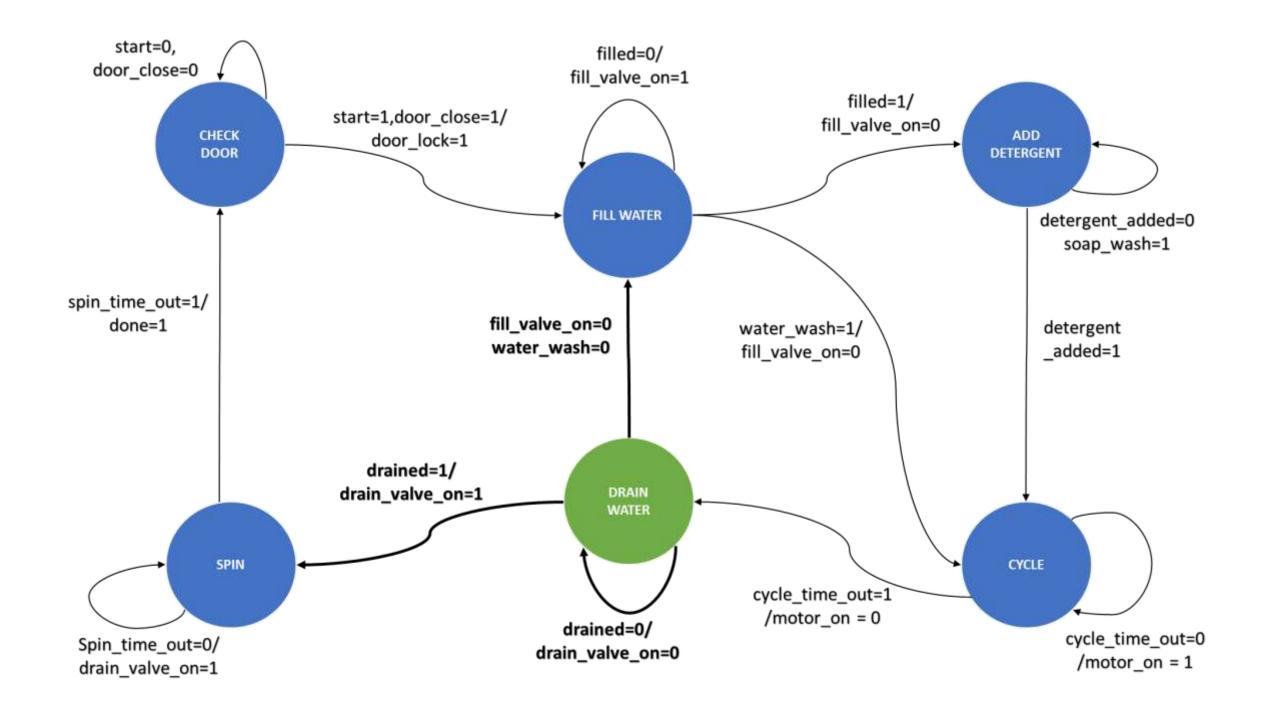


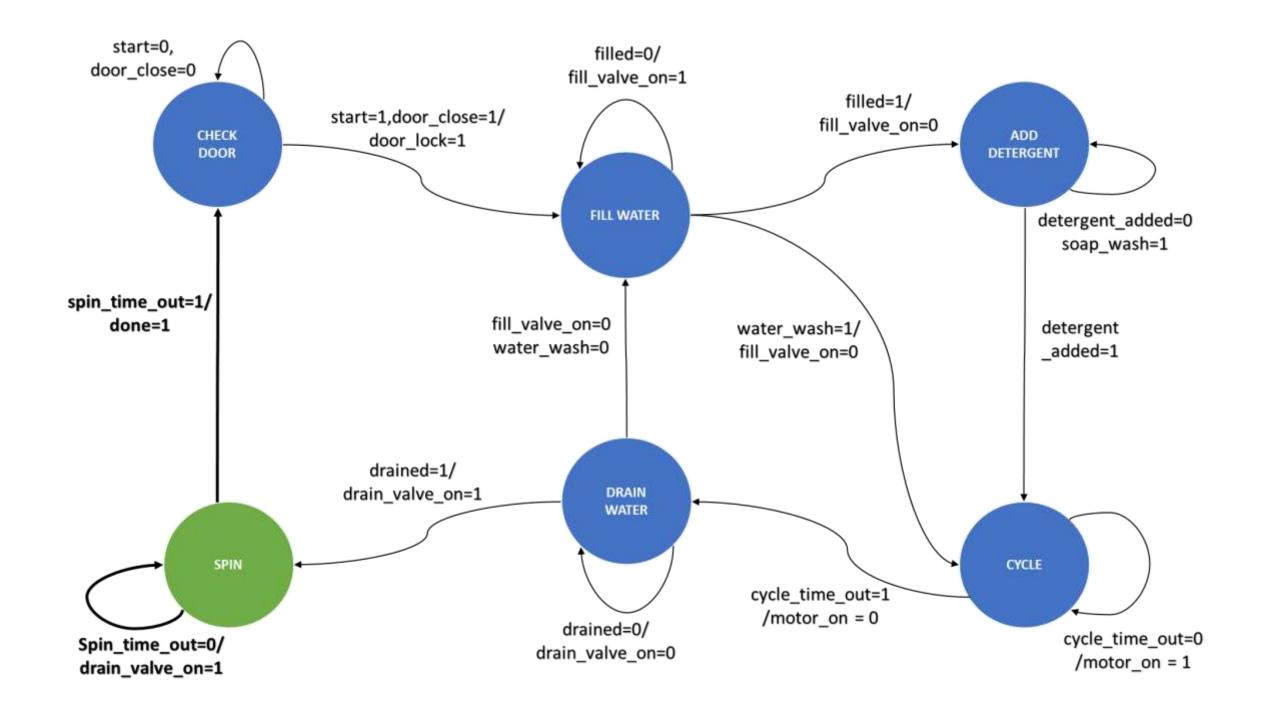




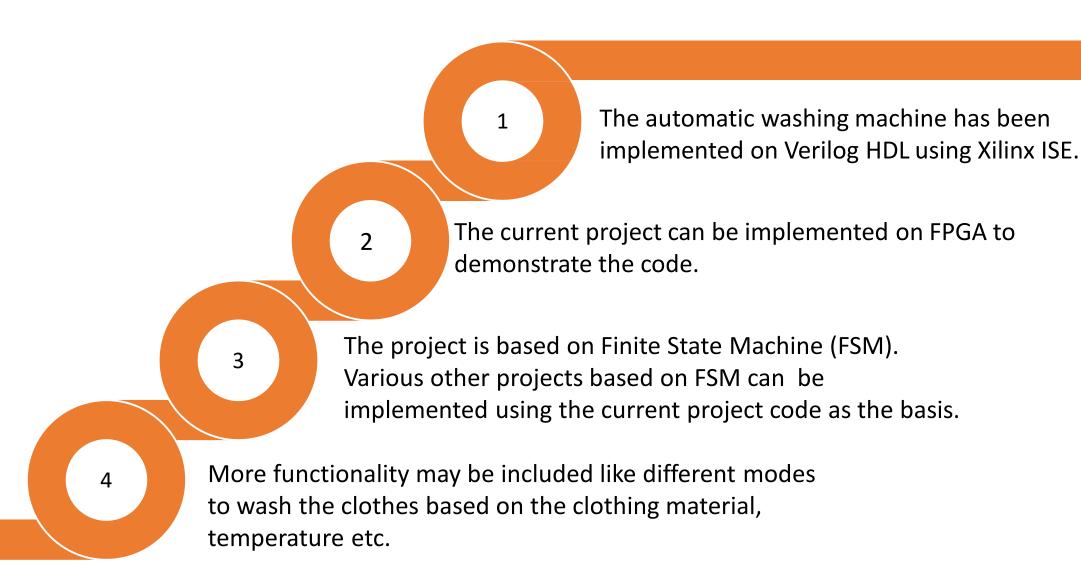




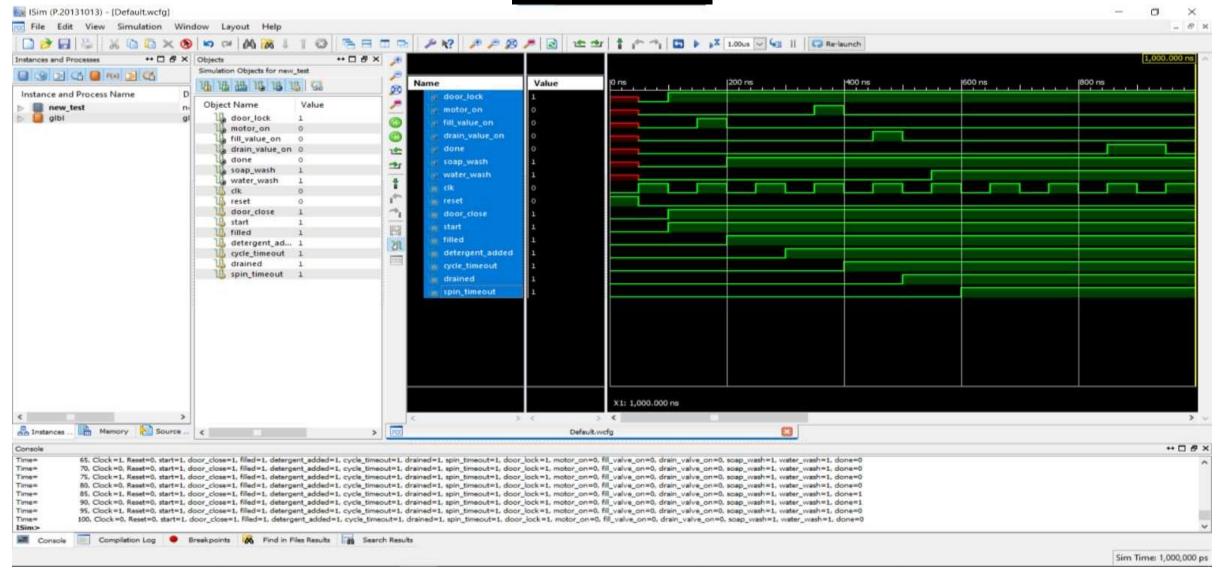




FUTURE SCOPE AND APPLICATIONS



Result



Thank you