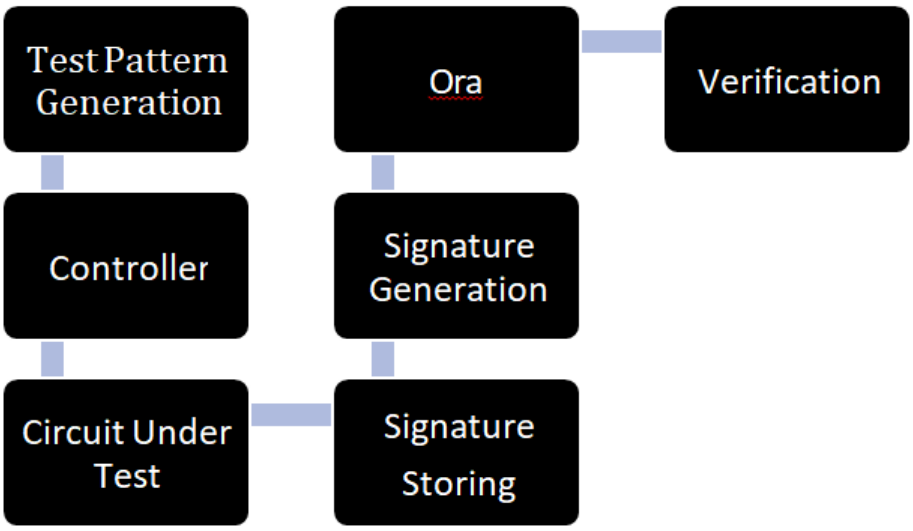
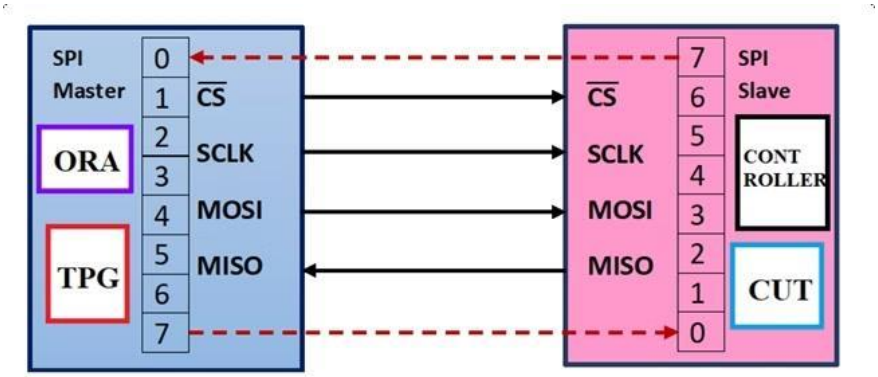
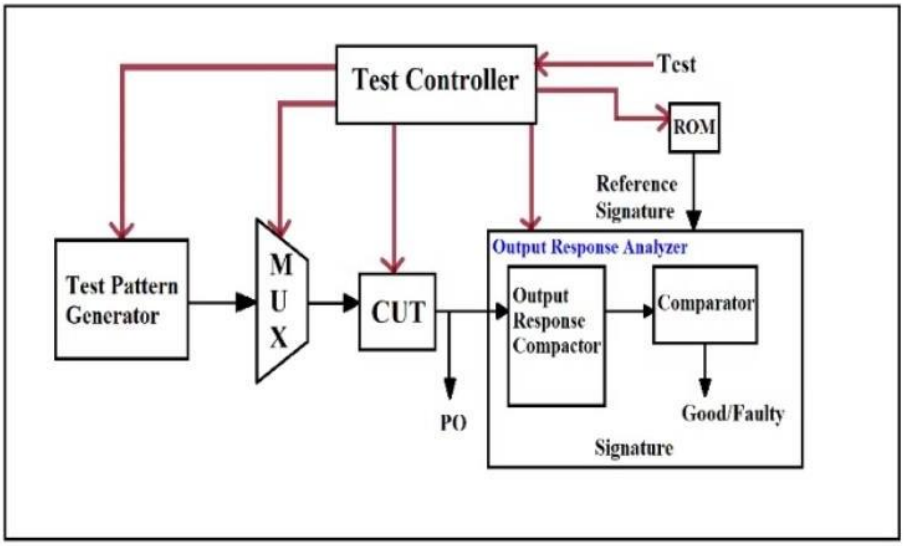
Algorithm Flowchart:



SPI with BIST:

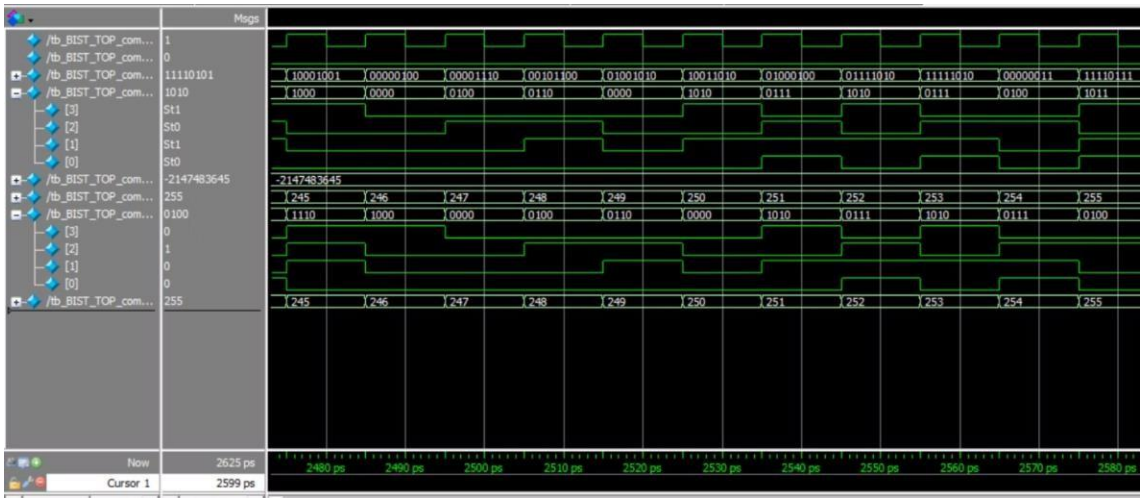


Circuit Diagram:



Results and Output:

Simulation Result:



Testbench Result: