## Julation:

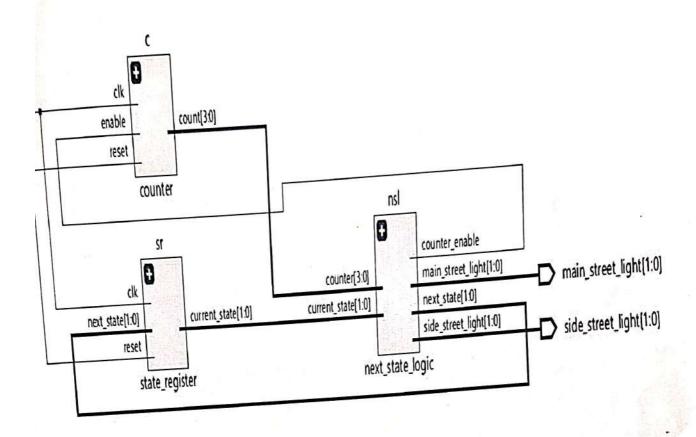
Waveform Results: The simulation shows the segment outputs for current and next state of moore machine

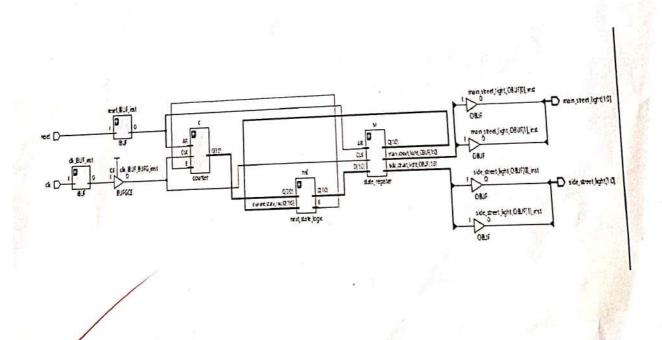
Simulation Analysis: The results confirm that FSM work as given in design specifications.

## SIMULATION WAVEFORM:

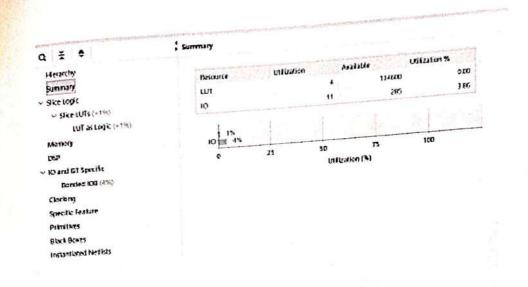
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## HEMATIC:





Resource Utilization Symmetric Resource Utilization Symmetry Resource Utilization Summary:



## 6. Conclusion

FSM to control traffic lights at a simple intersection with two streets was successfully implemented. All states were checked. Correct outputs were generated. And RTL schematic and Synthesis schematic was also correctly generated.