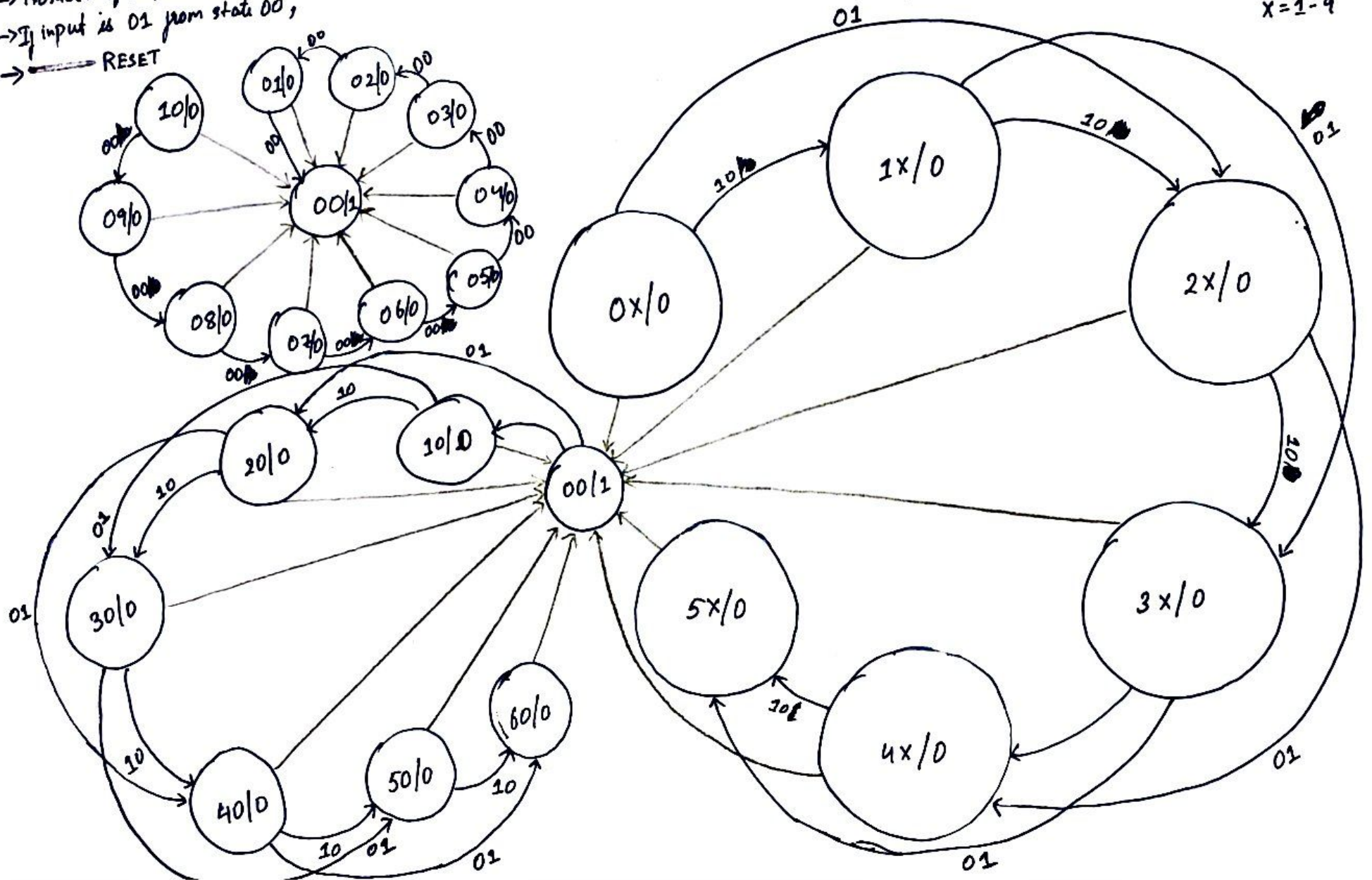


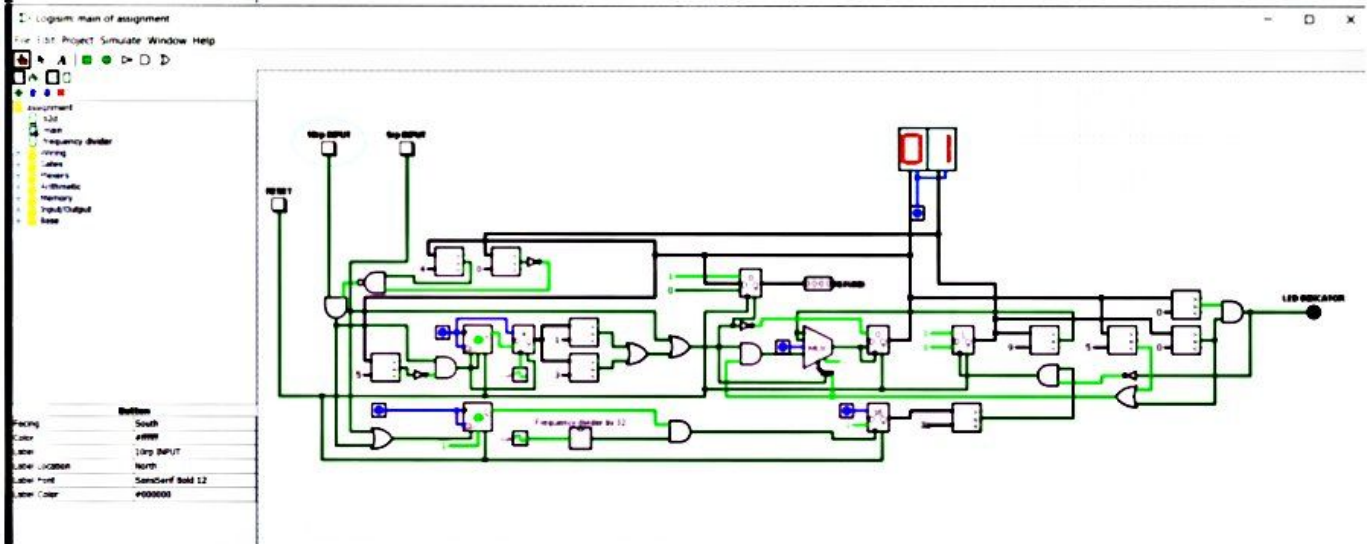
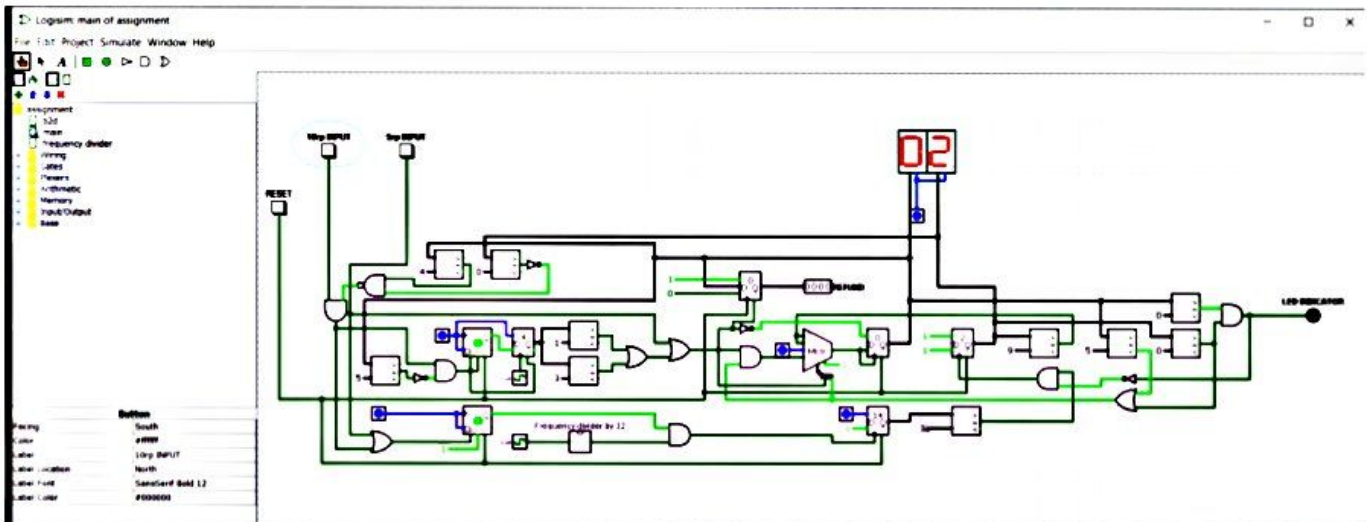
Top-level Diagram

STATE DIAGRAM (MOORE MACHINE)

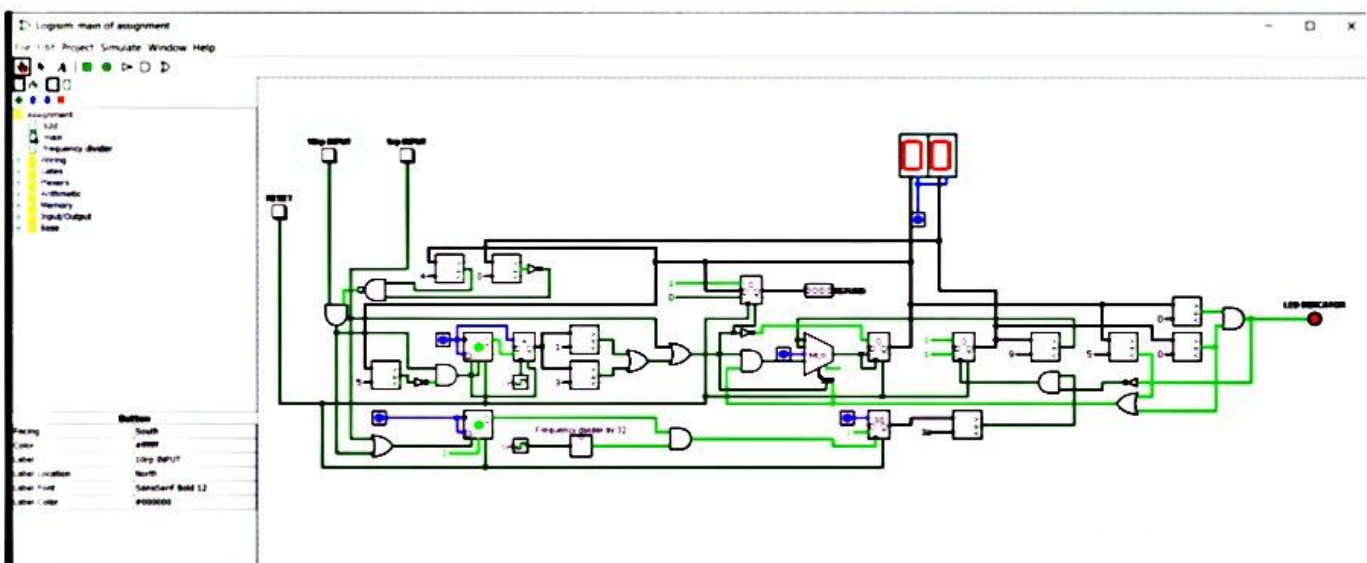
- Number of Inputs = 2 ($\neq 5, \neq 10$)
- Number of Outputs = 1 (LED Indicator)
- If input is 01 from state 00,
- RESET



5rp INPUT	10rp INPUT	RESET	REFUND	u1	u2	LED INDICATOR
0	0	0	0000	0	0	1
1	0	0	0000	1	0	0
0	0	0	0000	1	0	0
0	1	0	0000	1	0	0
0	0	0	0000	1	0	0
0	0	0	0000	2	0	0
0	0	0	0000	3	0	0
0	0	0	0000	2	9	0
0	0	0	0000	2	8	0
0	0	0	0000	2	7	0
0	0	0	0000	2	6	0
0	0	0	0000	2	5	0
0	0	0	0000	2	4	0
0	0	0	0000	2	3	0
0	0	0	0000	2	2	0
0	0	0	0000	2	1	0
0	0	0	0000	1	9	0
0	0	0	0000	1	8	0
0	0	1	0001	0	0	1
0	0	0	0001	0	0	1



When the time is over, LED indicator turns red



Additional features added:

1. Support for ₹10 coins along with ₹5 coins.
2. LED Display of minutes left.
3. Reset button, resets the entire circuit and initiates refund.
4. Refund Policy, upon press of reset button, returns coins according to number of minutes left, which are available as a multiple of 5.
5. Any combination of ₹5 and ₹10 coins can be used.