THE DESIGNERS(U)- **GL- 6**

Inputs :

Item_in   : std_logic_vector(2 downto 0);
Money_in   : std_logic_vector(3 downto 0);
Clk   : std_logic;

Outputs :

Money_out : std_logic;

A logic high represent the outflow of 5 rs coin.(A refund of 5 rs coin per one clock cycle.)

Item_out   : std_logic_vector(2 downto 0);

Encodings:

Item encoding	Money encoding	State	Encoding	
"000" : default	"0000" : default	idle	000	-- IDLE
"001" : Misal	"0001" : 2000	wait_for_m	001	-- Wait for money
"010" : Samosa	"0010" : 500	cant_s	010	-- Cant Serve
"011" : Poha	"0011" : 100	coin_d	011	-- Coin_dispense
"100" : Upma	"0100" : 50	item_d	100	-- item_dispense
"101" : Extra chatni	"0101" : 20			
"110" : Lassi	"0110": 10 rs note			
"111" : Chai	"011" : 10 rs coin			
	"0111" : 5 rs coin			

State Diagram :