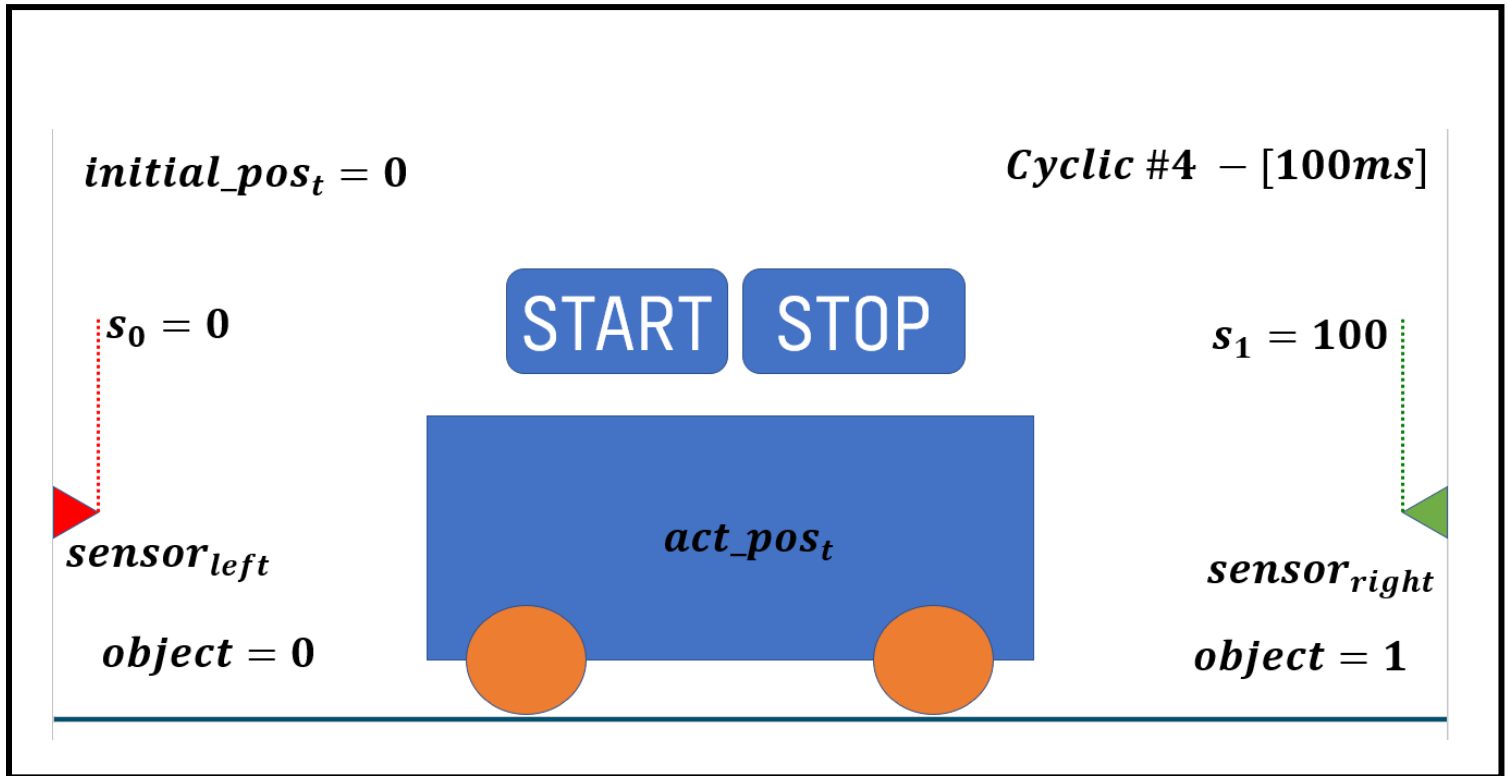


Example: Truck Driving



Name	Type	& Reference	Constant	Retain	Replicable	Value	Description [1]
truck_before_pos	USINT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0	
stop_track	BOOL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	FALSE	
sensor_left	BOOL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	FALSE	
sensor_right	BOOL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	FALSE	
object	BOOL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	FALSE	
start_track	BOOL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	FALSE	
truck_act_pos	USINT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0	
track_stateVar	USINT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0	
track_before_stateVar	USINT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	

Object Name	Version	Transfer To	Size (bytes)	Date	Source	Source File	Description
CPU>							
Cyclic #1 - [10 ms]							
Cyclic #2 - [20 ms]							
Cyclic #3 - [50 ms]							
Cyclic #4 - [100 ms]							
Program	1.00.0	UserROM	2952	03/10/2...	Program	Simulation_...	
Cyclic #5 - [200 ms]							
Cyclic #6 - [500 ms]							
Cyclic #7 - [1000 ms]							
Cyclic #8 - [10 ms]							

```

void _CYCLIC ProgramCyclic(void)
{
    if (stop_track == 1){
        stop_track    = 0;
        track_stateVar = 0;
    }

    switch(track_stateVar){
        case 0:
        {
            // initialization variable
            truck_act_pos = truck_before_pos;

            // waiting for start
            if(start_track == 1){
                start_track    = 0;
                track_stateVar = track_before_stateVar;
            }
        }
        break;
        case 1:
        {
            // move right
            truck_act_pos++;
            truck_before_pos = truck_act_pos;
            track_before_stateVar = 1;

            sensor_left = 0;
            if(truck_act_pos == 100){
                // take the object
                sensor_right = 1;
                object        = 1;
                track_stateVar = 2;
            }
        }
        break;
        case 2:
        {
            // move left
            truck_act_pos--;
            truck_before_pos = truck_act_pos;
            track_before_stateVar = 2;

            sensor_right = 0;
            if(truck_act_pos == 0){
                // remove the object
                sensor_left = 1;
                object        = 0;
                track_stateVar = 1;
            }
        }
        break;
    }
}

```