ASSIGNEMENT 3

**31342 -** Introduction to Programmable Logic Controllers

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Yellow:



RED



Green



Part2

In this ladder diagram is not specified what happens with conflicts,

For example if s1 is off and s2 are on, what should green be? There should be implemented combinational logic for example to make green either s1 or s2, or s1 and s1.

Alternative priority could be given to some switches for example if s1 is on , green would always be on no matter the value of s2. It was chose to implement the or gate to solve the conflicts

Part3

Sw1 is red, goes right

Sw2 is green reverse direction

Sw3 is emergency, and the bottle stops

Can the functionality be achieved using only one input switch (apart from the emergency stop) ? (Explain your answer).

Yes

It would work AS A TOGGle